ZAFIRA

HOLDEN

www.holden.com.au

Owner's Name .....
Address .....
Town .....
State.....Postcode .....

Model Name .....
Reg. No.....Eng. No. .....
Odometer Reading .....
Date of Purchase .....

(17 character ISOVIN) Vehicle Identification Number

Vehicle Identification Certificate

Selling Retailer's
Stamp & Signature .....

Holden Ltd. ABN 84 006 893 232 (hereinafter Holden).

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle. Also, if less than three years old, this vehicle will qualify for Roadside Assistance, refer to Chapter 9. If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook. For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au* .

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Part No. 92209320
September 2003 (Zafira, Print 1)

CONTENTS

Dash layout, tilt steering, horn, gauges, warning lights, wipers and washers, exterior lights, ignition switch, radio, phone, glovebox, ventilation, heating, air conditioning, lighter, accessory socket, ashtray, information display, cruise control, bonnet. *Dashboard* **1**

Keys, locks, child safety locks, remote control, locking, deadlocking, unlocking, immobiliser, windows and emergencies, tailgate. *Locks* **2**

Seats, luggage compartment enlargement, luggage compartment cover, head restraints, seat belts, child restraints, drink holders, mirrors, windows, interior lights, park brake. *Know your vehicle* **3**

Engine starting, running in, safety, automatic transmission, manual transmission, driving precautions, snow chains, ABS, traction control. *Driving* **4**

Fuel, petrol, emission control, reducing fuel consumption. *Fuel* **5**

Accidents, first aid, flat tyre, towing another vehicle, towing your vehicle, engine overheating, flat battery, airbags, bulb replacement, fuses. *Emergencies* **6**

Miscellaneous checks, engine oil level, engine coolant level, brake, transmission and steering fluid levels, washer fluid level, battery, tyres. *Weekly checks* **7**

Vehicle specifications, identification labels. *Specifications* **8**

New vehicle warranty certificate, parts and accessories warranty, warranty questions and answers, Roadside Assistance, customer assistance, retailers. *After sales* **9**

Loading the vehicle, towing. *Tow and load* **10**

Interior cleaning, caring for paint, paint polishing, wheels and tyres, exterior glass cleaning, cleaning products. *Cleaning* **11**

Service intervals, service reminder light, additional service requirements, maintenance schedule, service times, service coupons *Servicing* **12**

Index

We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction and compliment you on your choice.

This handbook applies to all current Zafira models. Due to different options, you may find reference in this Handbook to some equipment not installed in your vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the vehicle second-hand, or have become the new driver.

Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer to Chapter 9). For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au*.

Please mail to the address on the back of this page.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms, etc.)

First name in full or initials

Surname or Name of Company / Institution / Government Department

Address

Street / box

City / Town

State Postcode

1st contact phone no

2nd contact phone no

Email address

Vehicle registration number

Holden number (if fitted – refer to Chapter 8)

ISOVIN Number (refer to Chapter 8)

Place in an envelope and mail to:

The Manager – Warranty Administration
Service Department
Holden Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

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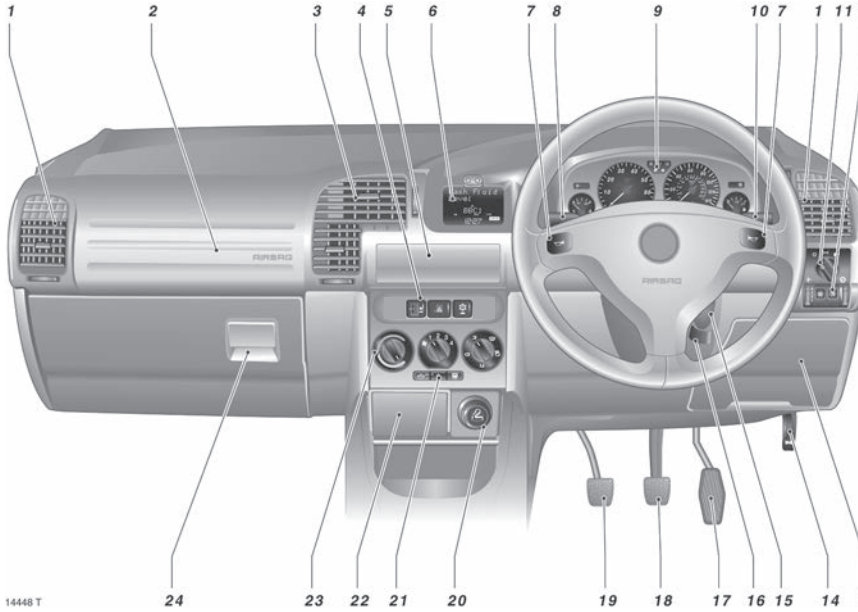
CHAPTER 1

Dashboard

Page

1-2 Layout
1-3 Tilt steering and horn
1-4 Gauges
1-6 Warning / reminder lights
1-9 Wipers and washers
1-10 Exterior lights
1-12 Ignition switch and steering lock
1-13 Radio and phone
1-14 Glovebox
1-15 Ventilation
1-16 Ventilation and heating
1-18 Air conditioning
1-19 Demisting
1-20 Lighter and accessory socket
1-21 Ashtrays
1-22 Triple information display
1-23 Multi-information display
1-26 Trip computer
1-30 Cruise control
1-32 Bonnet

LAYOUT



		Page
1	Side air vents	1–15
2	Front passenger airbag	6–17
3	Centre vents	1–15
4	Hazard light switch	1–11
5	Radio	1–13
6	Information display	1–22
7	Horn	1–3
8	Lever for:	
	• high / low beam headlights	1–10
	• turn signals	1–11
	• cruise control	1–30
9	Gauges	1–4
10	Lever for:	
	• wipers and washers	1–9
	• information display buttons	1-23
11	Headlight switch	1–10
12	Switch panel for:	
	• dimming instruments	1–10
	• fog lights	1–11
	• headlight range adjust	1–10

		Page
13	Storage compartment with fuse panel behind	6–27
14	Bonnet release	1–32
15	Ignition switch	1–12
16	Tilt steering	1–3
17	Accelerator pedal	
18	Brake pedal	
19	Clutch pedal (manual trans.)	
20	Cigarette lighter	1-20
21	Switches for:	
	• air intake	1–17
	• air conditioning	1–18
	• rear demister	1–19
22	Ashtray	1–21
23	Heater / ventilation controls	1–16
24	Glovebox	1–14

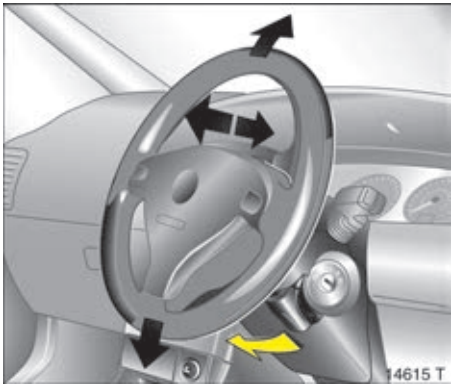
TILT STEERING AND HORN

Tilt steering

The lock lever is located directly beneath the ignition lock. When the lock lever is released, the steering column can be moved up or down, pulled back and pushed forwards.

To release the lock lever, move it downwards.

Adjust the steering wheel and move it as required. When in position, move the lock lever back up as far as it will go. Jiggle the steering wheel to ensure it has locked securely before driving.

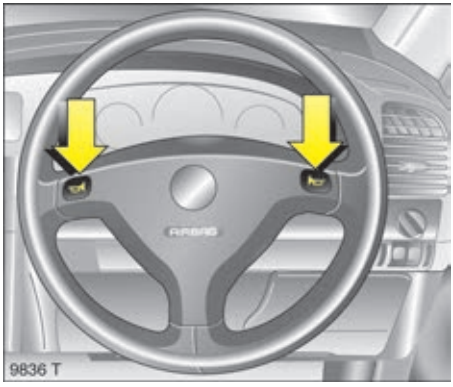


WARNING:

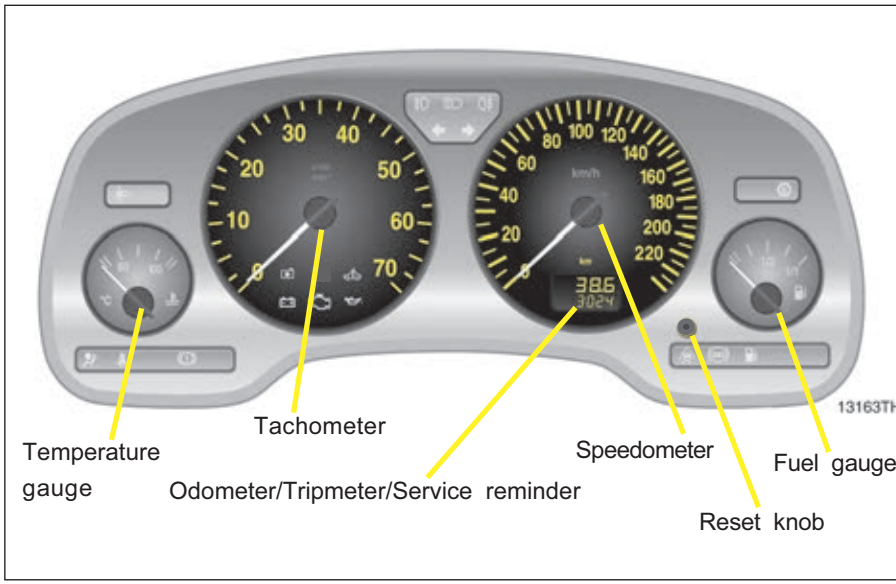
As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.

Horn

The horn is activated by pressing the symbol, on either side of the steering wheel.



GAUGES



Tachometer

The tachometer indicates the engine speed in revolutions per minute (rpm).

Sustained operation of the engine at engine speeds above 6000 rpm will cause serious engine damage.

Speedometer

The speedometer indicates vehicle speed in kilometres per hour (km/h). The small window in the speedometer is for the tripmeter, odometer and service reminder.

Reset knob

The reset knob is located to the lower right of the speedometer.

Tripmeter

The tripmeter (the upper reading in the speedometer window) records kilometres travelled on a particular trip. To reset the tripmeter, push the reset knob when the ignition is on and the tripmeter display is selected.

Odometer

The odometer (the lower reading in the speedometer window) records kilometres travelled since the vehicle was built. When the ignition is off, the odometer can be displayed for approximately 15 seconds by briefly pushing the reset knob.

GAUGES cont.

Service reminder

If the vehicle is within 500 km or one week of the next service, the service reminder will display for a few seconds when the engine is started. Refer to Chapter 12.

Engine temperature gauge

The temperature gauge indicates the engine coolant temperature.

If the pointer is to the left of the 80 mark, the engine is not yet at operating temperature.

If the pointer is between the 80 mark and the 100 mark, the engine is at normal operating temperature.

If the pointer moves to the right of the 100 mark for more than 30 seconds, the engine temperature is too high. If this occurs, stop the vehicle as soon as it is safe to do so and refer to Engine Overheating, Chapter 6.

Fuel gauge

Refer to Chapter 8 for the fuel tank capacity.

Add fuel to the tank when the gauge indicates low fuel or when ⛽ illuminates. If the pointer moves into the red zone or ⛽ flashes, add fuel to the tank immediately.

Refer to Chapter 5.

Note: Never let the tank become empty; this can cause damage to the exhaust system components.

WARNING / REMINDER LIGHTS

Airbag and seat belt pretensioners

Illuminates for a few seconds when the ignition is switched on. If it does not illuminate, does not go out after 4 seconds or if it illuminates during driving, there is a defect in the system. In this condition, the airbag and / or seat belt pretensioners might not function correctly. Have the system checked at a Holden Retailer as soon as possible. Refer to Chapter 3 for more information about seat belt pretensioners or to Chapter 6 for more information about airbags.

Seat belt

Illuminates when the ignition is switched on unless and until the driver's seat belt is engaged. A warning chime sounds once if the driver's seat belt is not engaged when the ignition is turned on. This is to remind occupants to fasten their seat belts. The chime also sounds if the driver's seat belt is released before the ignition is turned off.

Brakes and hydraulic clutch

Illuminates when the ignition is switched on and the park brake is applied or if the brake or clutch fluid level is too low. It goes out when the engine is started. If Ⓘ illuminates when driving, ensure the park brake is not applied, stop the vehicle as soon as it is safe to do so and contact a Holden Retailer.

Engine cooling (if fitted)

Illuminates for a few seconds when the ignition is switched on. If it illuminates when the engine is running, a fault has occurred in the engine cooling system or the cooling system of the air conditioning system. Stop the vehicle as soon as it is safe to do so and check the coolant level (refer to Chapter 7). If the coolant level is correct, have the system checked by a Holden Retailer.

Engine and transmission electronics

Illuminates for a few seconds when the ignition is switched on.

Your vehicle is fitted with an electronic management system.

If illuminates when the engine is running, a fault has been detected in the engine or transmission electronics system. If this occurs, the system switches to limp-home mode, fuel consumption may increase and driveability may be impaired. Have your Holden Retailer check the system as soon as possible.

If flashes and the engine cannot be started, a fault has been detected in the electronic immobiliser system. Remove and again insert the ignition key, then try again. If the control indicator continues to flash, try to start the engine using the spare key. Have the system checked by a Holden Retailer.

WARNING / REMINDER LIGHTS cont.

Battery

Illuminates when the ignition is switched on. Goes out when the engine is started.

If illuminates when driving, the battery is not being charged (engine cooling may also be affected). Have the system checked by a Holden Retailer as soon as possible.

Emissions

Illuminates when the ignition is switched on. Goes out shortly after the engine starts. Your vehicle is fitted with an emission monitoring system and indicates when the monitoring system detects that a system service is required.

If illuminates when driving, the emission system may require servicing. Although the vehicle may still be drivable and not require towing, have the system checked by your Holden Retailer.

If flashes while driving, continued driving can lead to destruction of the catalytic converter. Have the system checked by a Holden Retailer as soon as possible.

Oil pressure

Illuminates when the ignition is switched on. Goes out after the engine is started. It can illuminate when idling if the engine is hot, but must go out when engine speed is increased. If illuminates when the engine is running, stop the vehicle as soon as possible and switch off the engine. Do not run the engine when is illuminated. Check the engine oil level (refer to Chapter 7). If the oil level is normal, have the system checked at the nearest Holden Retailer.

Front fog lights (if fitted)

Illuminates when the front fog lights are switched on.

Rear fog lights

Illuminates when the rear fog lights are switched on.

High beam

Illuminates when the high beam headlights are in use or are flashed.

Left and right turn signal indicators

The respective arrow (left or right) flashes when the turn signal lights are in use. If the symbol flashes rapidly, a turn signal bulb may have failed.

WARNING / REMINDER LIGHTS cont.

Sports drive (automatic transmission)

Illuminates when the ignition is switched on and sports drive is selected. The transmission shifts at higher engine speeds. Refer to Chapter 4.

Automatic transmission fault

Illuminates for a few seconds when the ignition is switched on and when a fault is detected in the automatic transmission. If illuminates when driving, stop the vehicle, switch the engine off and restart. If it continues to flash, manually change gears using the shift lever. Have the system checked by a Holden Retailer as soon as possible.

Traction control

Illuminates for a few seconds when the ignition is switched on. The light flashes when the system is controlling wheel spin. Refer to Chapter 4.

Anti-lock Brake System (ABS)

Illuminates for a few seconds when the ignition is switched on and the system performs a self-check. This self-check may be audible. If does not go out or it illuminates when driving, a fault has been detected in the ABS. The vehicle brake system remains operational but without ABS assistance. Refer to Chapter 4. Have the system checked at a Holden Retailer as soon as possible.

Low Fuel

Illuminates for a few seconds when the ignition is switched on and when the fuel gauge enters the red zone. This light may come on slightly earlier when cornering.

WIPERS AND WASHERS

Wipers and washers are operational when the ignition is on.

Windscreen wipers

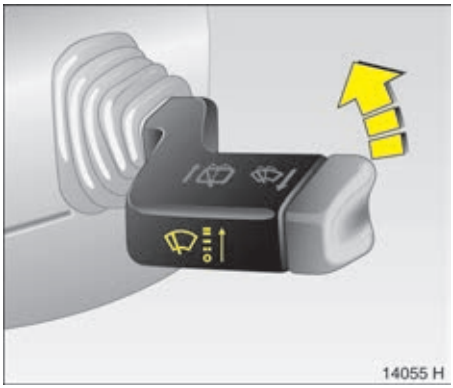
Move the lever upwards to turn the windscreen wipers on or to select the next higher wiper speed.

═ fast

— slow

– – intermittent

O off

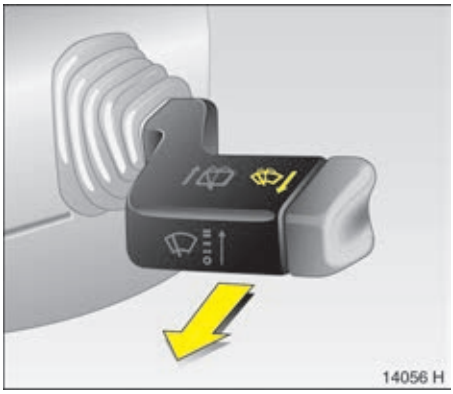


Windscreen washer

To spray washer fluid onto the windscreen, turn the ignition on and pull the lever as illustrated.

As the washer fluid is sprayed, the wipers operate for several sweeps.

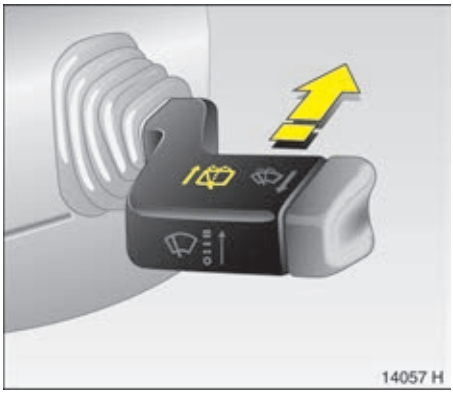
Note: Never operate the wipers on dry glass as this can damage the rubber and scratch the glass.



Tailgate wiper and washer

Push the lever as illustrated, to switch the rear wiper on. The rear wipers sweep intermittently.

To activate the rear washer, push the lever as illustrated and hold as long as required. When the rear washer is active, the rear wipers sweep continuously.

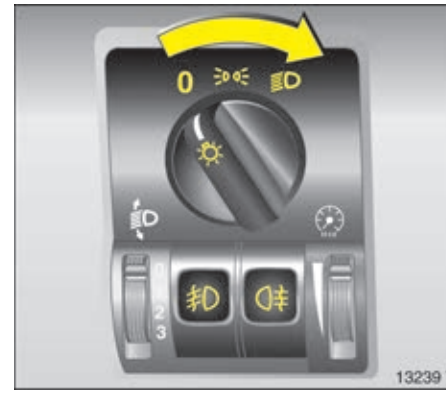


EXTERIOR LIGHTS

Light switch

Rotate the light switch dial to the required light setting:

- ≡D Headlights and park lights
- ⫸⫷ Park lights
- **0** Off
- ☼ Pull the light switch towards you to turn the interior light on.



Instrument illumination

To adjust instrument illumination level, turn the thumb wheel located below and to the right of the headlight switch.

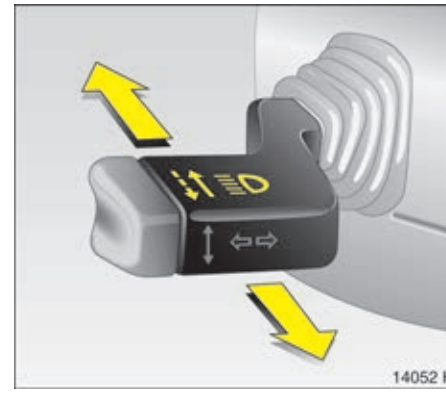
High / low beam

To toggle between high beam and low beam, turn the headlights on, push the lever until it you notice a click, then release it. When high beam is selected, ≡D illuminates in the instrument panel.

To flash the high beam lights (even if the headlights are off), pull the lever. The lights remain in high beam as long as the lever is held.

Note: Leaving the headlights switched on without the engine running will eventually flatten the battery.

When leaving the vehicle, a chime sounds to remind you to switch off the headlights if they are still switched on.

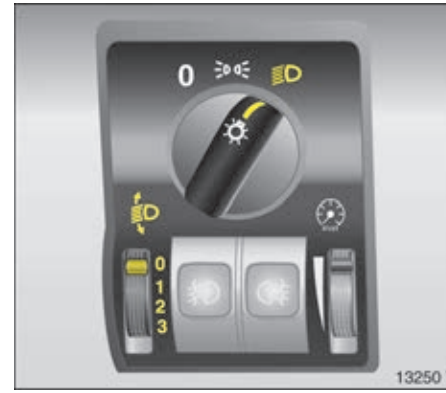


Headlight range adjustment

Correct adjustment of the headlight range reduces headlight glare or 'dazzle' for other road users.

Select **0**, **1**, **2** or **3** to adjust the headlight range to suit the load in the vehicle.

- **0** Front seats occupied.
- **1** Front and second row seats occupied.
- **2** Front and second row seats occupied and load or passengers in the third row.
- **3** Driver's seat occupied and load or passengers in the third row seats.



EXTERIOR LIGHTS cont.

Rear fog lights

The button for the rear fog lights is located below the headlight switch to the right.

Push the button to toggle the switch on and off. When the fog lights are switched on, illuminates in the instrument panel.

Check the state laws regarding the use of fog lights when driving.

Front fog lights (if fitted)

The button for the front fog lights is located below and to the left of the headlight switch.

Push the button to toggle the switch on and off. When the fog lights are switched on, illuminates in the instrument panel.

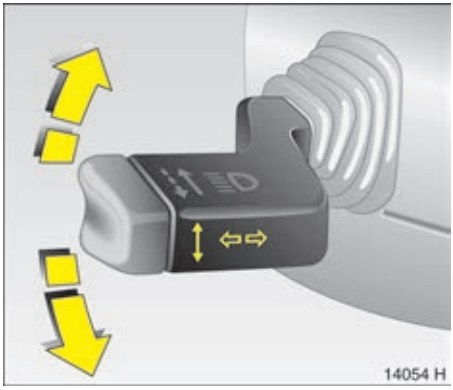
Check the state laws regarding the use of fog lights when driving.

Turn signals

To signal a turn, push the lever up or down as required, in the same direction you are to turn the steering wheel.

When the steering wheel is turned back, the lever cancels the turn signal and returns to its original position.

In some turns, such as changing lanes, the steering wheel is not turned far enough to cancel the turn signal. To indicate a lane change, move the lever part way and hold. The lever returns to the original position when released.



Hazard warning lights

Push the hazard light button to toggle the hazard light switch on and off.

Use the hazard warning lights to warn other drivers if your vehicle becomes a traffic hazard, day or night.

When the hazard warning lights are on, flashes in unison with the turn signals.

Note: Use of the hazard warning lights while the vehicle is moving is illegal in some states.

IGNITION SWITCH AND STEERING LOCK

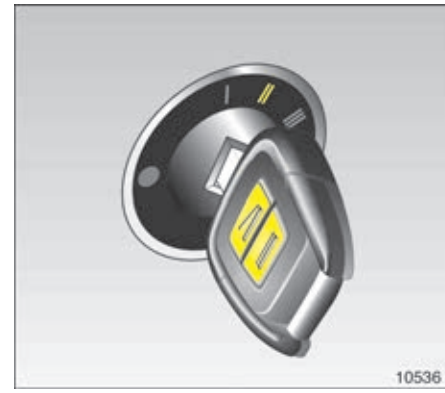
Ignition switch

● Ignition off. The steering lock is enabled when the key is removed.

I Ignition off. Steering unlocked.

II Ignition on.

III Start.



Release the steering lock

To release the lock, move the steering wheel slightly and turn the key to position **I**.

Lock the steering column

Withdraw the key in position ●. Rotate the steering wheel until the lock is heard to engage.

WARNING:

Do not turn the engine off while the vehicle is moving. Power assisted equipment (such as brakes or steering) which are operated by the engine will be ineffective. Manual transmission: Never remove the key while the vehicle is moving, as this will lock the steering wheel.

An audible warning will sound to remind you when:

- you are leaving the vehicle and have not removed the ignition key
- you are leaving the vehicle and have left the headlights on.

RADIO AND PHONE

Radio

Refer to the audio manual for the radio / CD operating instructions.

WARNING:

The radio will stay on until the key is removed from the ignition. Therefore, remember to remove the key when leaving the vehicle for any length of time or you may flatten the battery.

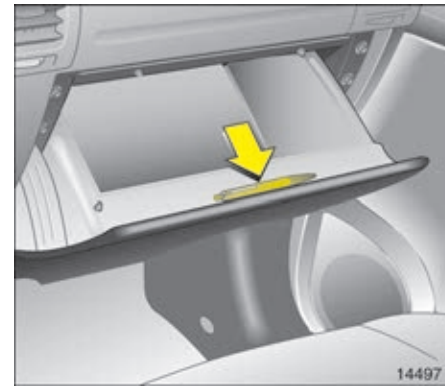
Mobile phones and CB radios

Some mobile phones and CB radio equipment use an integrated antenna. When used inside the vehicle, these may temporarily affect the vehicle electronics due to the interference created when transmitting.

Therefore, only mobile phones and CB equipment that use an antenna fitted to the outside of the vehicle should be used.

GLOVEBOX

To open the glovebox, pull the handle on the glovebox lid. The lid features a pen holder, as illustrated.

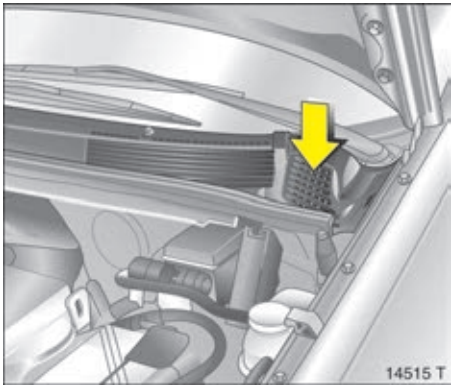


VENTILATION

Air intake

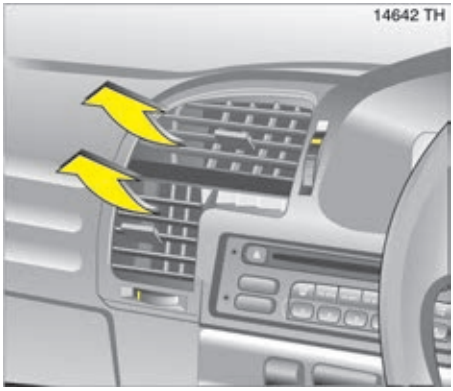
The vehicle features a flow through ventilation system for your comfort. Under reasonable conditions it should not be necessary to open the windows.

Outside air is drawn into the vehicle through openings at the base of the windscreen, to the far left and far right. Do not allow these openings to become clogged with debris, such as leaves or snow.



Pollen filter

A filter cleans the fresh air entering from outside. It filters dust, soot, pollen and spores. The filter also cleans the interior air when recirculated air is selected. The pollen filter is to be replaced at the intervals specified in the maintenance schedule. Refer to Chapter 12.



Air outlets

Do not cover the air outlets when storing items in the luggage area storage compartments.

Vents

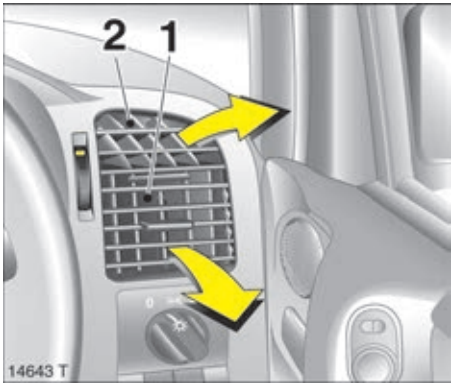
The demist and foot vents are not adjustable; they are preset to direct air to the windscreen, windows and feet.

The face level vents (at the centre and each end of the dashboard) and the rear vents (behind the front seats) are adjustable. Swivel and tilt the vents as required or completely shut them off by turning the wheel next to the vent to **O**.

The face level vents at each end of the dashboard have two functions:

1 The lower adjustable section is for face level air.

2 The fixed position upper section is for demisting the side windows.



VENTILATION AND HEATING

Front temperature dial

Anticlockwise = cooler

Clockwise = warmer

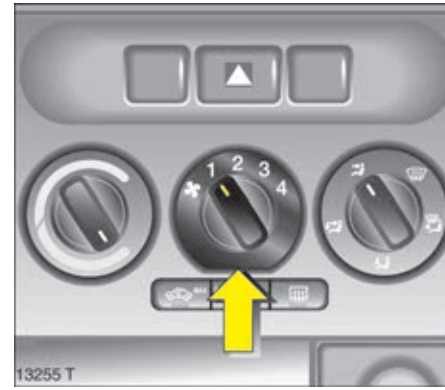
Front fan dial

The fan dial includes four fan speeds and the Off position.

✱ Off

4 Maximum

Note: The rate of air flow is influenced by vehicle speed, as well as the fan.



Front vent dial

Windscreen and front window demist vents.

Windscreen, front door demist vents and front and rear foot vents.

Front and rear foot vents.

Face level, front foot and rear foot vents.

Face level.

The dial can be set to any intermediate position.

Note: Air will come from the face vents when the face vents are open, regardless of the vent dial position.

VENTILATION AND HEATING cont.

Air intake button

Push the button to toggle between fresh (outside) air and recirculated air. When recirculate is selected, illuminates .

When following another vehicle on dusty roads or to prevent exhaust fumes or odours from entering your vehicle, select . Close the windows and switch the fan on, preferably to high speed so that positive air pressure in the vehicle helps to prevent dust from being sucked in.

When driving on unsealed roads where the dust is not airborne, deselect to return to the fresh air position.

When recirculate is selected, interior air is reused. Therefore, it is recommended that this setting is not used over long periods of time. If any occupants are smoking, it is recommended that the recirculate position is not used, as tobacco smoke adheres to the air ducts and will produce stale smelling air.

Heating

- Air conditioning off.
- Air intake button to fresh air.
- Temperature dial as required.
- Fan as required, but not full speed.
- Select vents.

Note: Heat is not available until the engine reaches normal operating temperature, therefore, close the vents until the engine has warmed up.

Ventilation without air conditioning

Conserve fuel when air does not require cooling as follows:

- Air conditioning off.
- Air intake button to fresh air.
- Temperature dial to cold.
- Fan as required.
- Select vents.
- Open all vents.

AIR CONDITIONING

Press ☼ to switch on the air conditioner. The ☼ light illuminates and the fan automatically runs at low speed. The fan speed can be increased if required.

When air conditioning is activated, the air is dehumidified and the temperature is adjusted based on the temperature dial setting.

Note: The air conditioning system only cools the air when the engine is running. Also, the cooling compressor switches off automatically in low outside temperatures.

At least one vent must be open when the air conditioning is on, so that the evaporator does not ice up due to a lack of air movement.

To conserve fuel, switch off the air conditioning in cold weather. However, once a month (with the engine running) switch air conditioning on for 5 to 10 minutes, even in winter. This lubricates the system.

If a fault occurs with the air conditioning, have your Holden Retailer check the system.

Normal cooling

- Air conditioning on.
- Fresh air selected.
- Temperature dial to cold.
- Fan speed as required.
- Select ⇉ vents.
- Open all vents.

DEMISTING

Maximum cooling

In hot weather or when the vehicle has been left in the sun, open the windows briefly to allow the warm air to escape and select maximum cooling as follows:

- Air conditioning on.
- Recirculated air selected.
- Temperature dial to cold.
- Fan to maximum speed.
- Select vents.
- Open all vents.

Note: Do not have recirculated air selected for long periods as cabin air may become stale.

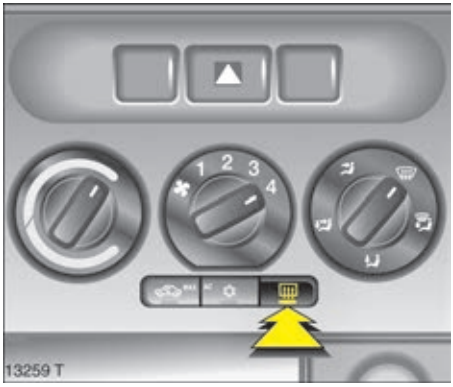
Windscreen demisting

- Air conditioning on.
- Fresh air selected.

  Note: Air intake automatically switches from recirculated air to fresh air when is selected.
- Temperature dial as desired.
- Fan to speed **2** or more.
- Select or vents.
- Close all dash vents.

Demisting – rear window and exterior mirrors

To switch demisting on, select the demist button when the ignition is on. When switched on, illuminates in the button. Demisting automatically switches off after approximately 15 minutes.



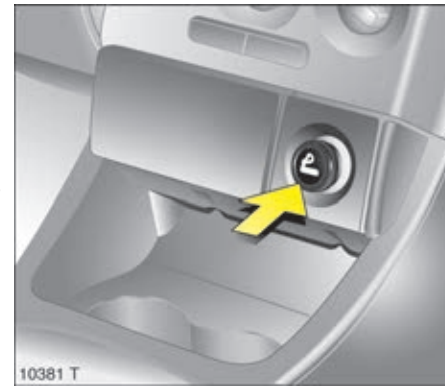
LIGHTER AND ACCESSORY SOCKET

Cigarette lighter

To activate the cigarette lighter, press it in when the ignition is on. The lighter surround illuminates when the ignition is on.

When the element is heated, the lighter pops out, ready to withdraw for use.

The maximum power consumption of electrical accessories used in this socket must not exceed 120 watts.



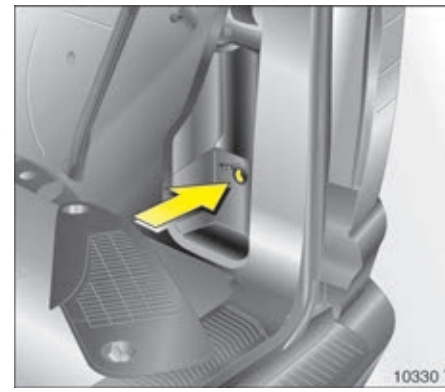
Accessory socket

The accessory socket can be used when the ignition is on or off.

To prevent the battery from discharging, the accessory socket switches off automatically 15 minutes after the ignition is switched off.

WARNING:

Repeatedly activating the accessory socket when the ignition is off will eventually discharge the battery.



The maximum power consumption of electrical accessories must not exceed 120 watts.

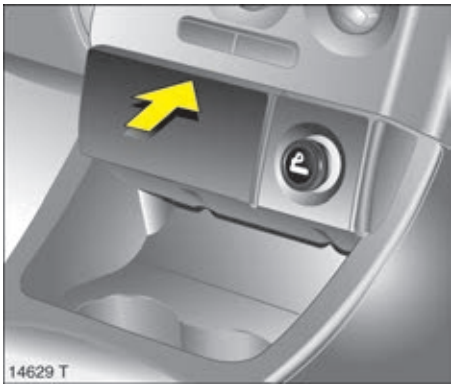
Note: When towing, this total (120 watts) includes the wattage of any accessories in use in the caravan / trailer attached to this socket.

ASHTRAYS

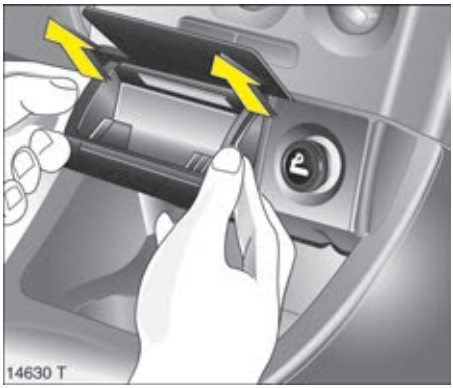
Note: Ashtrays should be used for ash only, not for combustible rubbish.

Front ashtray

To open the ashtray, press the top of the ashtray lid.



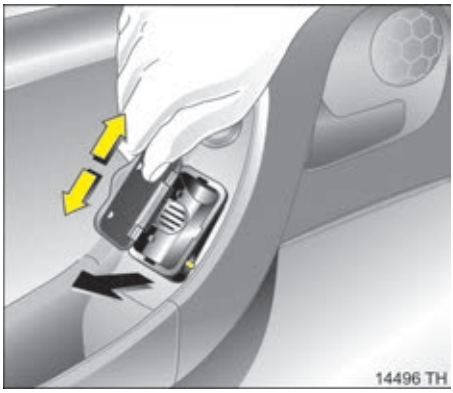
To empty the ashtray, grip the side inserts as illustrated, and pull upwards.



Rear ashtrays

To open a rear ashtray, lift the cover.

To remove a rear ashtray, move the cover back and forth as illustrated, to disengage the base, then lift the ashtray out.



TRIPLE INFORMATION DISPLAY

When the ignition is on, the time, date and outside temperature display. When the radio is on, the radio settings display instead of the date.

When the ignition is off, the settings can be displayed for approximately 15 seconds by briefly pressing one of the buttons above the display.

Adjust the date and time

With the ignition on and radio off:

- Press ◴ for approximately 2 seconds (day flashes).

  Press ⊙ until the day is correct.
- Press ◴ (month flashes).

  Press ⊙ until the month is correct.
- Press ◴ (year flashes).

  Press ⊙ until the year is correct.
- Press ◴ (hour flashes).

  Press ⊙ until the hour is correct.
- Press ◴ (minute setting flashes).

  Press ⊙ until the minutes are correct.
- Press ◴ – the clock starts.

Outside temperature

A fall in temperature is indicated immediately. A rise in temperature is indicated after a short delay.

To warn the driver that the road surface may be icy, ❄ displays when the temperature drops below 3° C.

WARNING:

The road surface may be icy, even though the display indicates a temperature above zero.

If '--.-° C' displays, a fault has occurred. Have your Holden Retailer check the system.

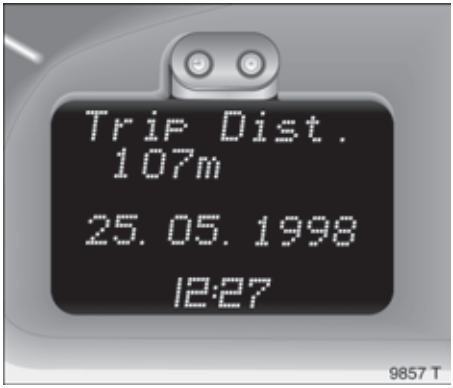
MULTI-INFORMATION DISPLAY (if fitted)

Features

When the ignition is on, the multi-information display provides:

- the time
- the date
- outside temperature
- check control information
- radio functions
- trip computer functions.

For more details about the date, time and temperature settings, refer to Triple Information Display, in this chapter.

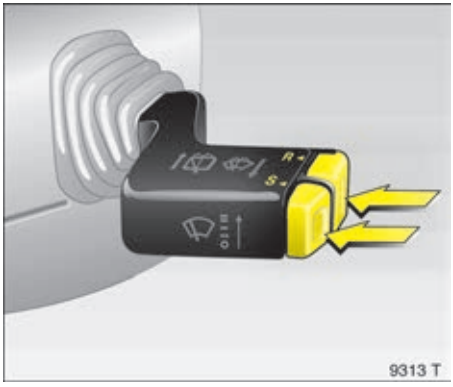


Control buttons

Use the control buttons for navigating and selecting the check control menu and the trip computer features.

The control buttons are integrated into the wiper lever. Use the **S** button for selecting and the **R** button for resetting. Refer to Acknowledge a fault warning and Trip computer, both in this chapter.

To use the trip computer, press one of the control buttons on the wiper lever until a menu displays.



Check control

The check control function monitors the following items:

- fluid levels (windscreen washer and coolant level)
- the thickness of the front disc pad linings
- important exterior lighting and associated wiring and fuses.

These items are automatically checked when the ignition is switched on except for the lighting, which is checked when the specific circuit is switched on.

MULTI INFORMATION DISPLAY (if fitted) cont.

Fault warnings

If a fault is detected, a corresponding fault warning displays along with the word CHECK.

If there are several fault warnings, they display one after the other.

Note: Some of the fault warnings display in an abbreviated form.

The following fault warnings may display; take the corresponding action to correct the problem:

FAULT WARNING	FAULT	ACTION
Checking wash water level	Fluid level in the washer system is too low.	Top up the fluid level. Refer to Chapter 7.
Checking power assisted steering oil level	Level in electro-hydraulic power assisted steering system is too low.	Consult a Holden Retailer for correction of fluid level.
Check battery for remote control	Battery voltage of the remote control unit is too low.	Replace the battery. Refer to Chapter 6.
Check anti-theft alarm system	Anti-theft alarm system is defective.	Consult a Holden Retailer for system repairs.
Check brake lamp switch	Brake lamp does not light up when brake is applied.	Consult a Holden Retailer for system repairs.
Check (specific location) lamp	Bulb failure.	Replace faulty bulb. Refer to Chapter 6.

Interruption of power supply

If the battery has been disconnected or battery voltage has dropped to a low level, the trip computer values will be lost. The check control function will automatically check all functions and stored fault warnings will appear on the display one after the other.

MULTI INFORMATION DISPLAY (if fitted) cont.

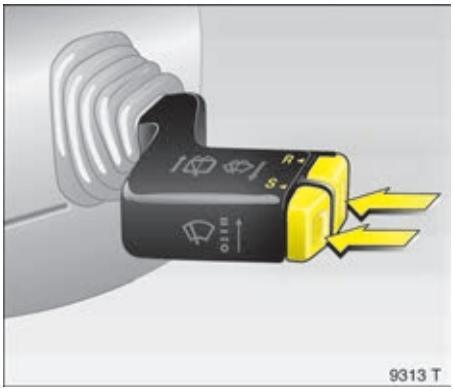
Acknowledge a fault warning

If a fault is detected, the fault warning display will override the trip computer display until the fault is acknowledged.

To acknowledge a fault, press **S** or **R** on the wiper lever. If several fault warnings exist, they must be acknowledged one at a time.

When all fault warnings have been acknowledged, the display reverts to trip computer information. However, a warning may display to remind you that one or more faults have been detected.

Once the faults have been remedied, the fault warnings are automatically cleared.



The following fault warnings reappear 15 minutes after they have been acknowledged:

- Brake Light
- Brake Lamp Fuse
- Headlight Tail Light.

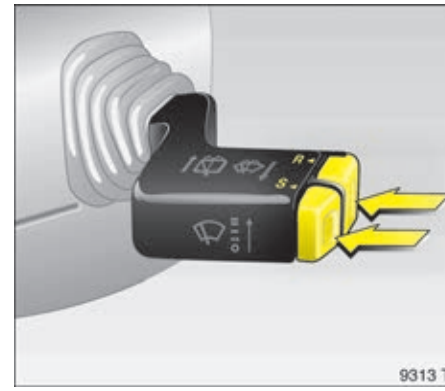
After the ignition has been switched off and switched on again, the stored fault warnings appear on the display one after the other.

TRIP COMPUTER (if fitted)

Display the trip computer

The trip computer provides vehicle data which is continuously recorded and evaluated.

1. Select the desired functions and settings using the menu on the display and button **S**.
2. Certain functions can be reset by pressing button **R**.



Functions

The following functions can be selected from the trip computer menu:

- range (distance to empty)
- trip consumption (fuel used)
- average consumption (fuel)
- instantaneous consumption (fuel)
- average speed
- distance travelled
- stop watch.

Note: If the check control function detects a fault, the fault warning display will override the trip computer display.

The trip computer can be reset at any time, however you may find the following times useful:

- At each tank refill. The trip computer will then give results that are averaged out over the full tank of fuel.
- At the beginning of a trip. This might involve many tank refills and therefore, results can be computed over the total journey.

Previously stored values are automatically cleared, but the following data cannot be cleared:

- instantaneous consumption of fuel
- outside temperature.

TRIP COMPUTER (if fitted) cont.

Range (distance to empty)

OVER 50 km

The range is calculated from the current contents of the fuel tank and the average fuel consumption over the past 20 to 30 km.

After refuelling, the range adjusts automatically after a short time.

The range can be reset, but only when the vehicle is stationary. Press button **R** while this function is selected.

UNDER 50 km

If the fuel in the tank will allow less than 50 kilometres of travel, the warning Range displays. Acknowledge the warning by pushing **S** or **R** on the wiper lever.

Trip Cons. (fuel consumption)

This feature displays the amount of fuel consumed since the trip computer was reset.

This measurement is shown in litres and can be reset by pressing button **R** while this function is selected.

Consumpt. (average consumption)

This feature displays the average fuel consumption (in litres per 100 kilometres) since the trip computer was reset.

This can be reset at any time by pressing button **R** while this function is selected.

TRIP COMPUTER (if fitted) cont.

Inst. Cons. (instantaneous consumption)

This feature displays the fuel consumption at that moment. The display changes depending on speed:

- Shown in litres per hour when the vehicle speed is less than 13 km/h.
- Shown in litres per 100 km when the vehicle speed is more than 13 km/h.

Speed (average speed)

This feature displays the average speed in km/h since the trip computer was last reset; not including time that has elapsed while the ignition was off.

This can be reset at any time by pressing button **R** while this function is selected.

Trip dist. (distance travelled)

This feature displays the number of kilometres travelled since the trip computer was reset.

This can be reset at any time by pressing button **R** while this function is selected.

TRIP COMPUTER (if fitted) cont.

Stop Watch

This feature can be used to display, for example, travel time. The stop watch is switched off when the ignition is switched off, but continues running when the engine is switched on again.

The stop watch can be reset at any time by pressing button **R** while this function is selected.

Resetting multiple items

The following trip computer calculations can be reset simultaneously by pressing button **R** for at least 2 seconds:

- trip consumption
- average consumption
- average speed
- distance travelled
- stop watch.

CRUISE CONTROL

Cruise control maintains the vehicle speed without the accelerator pedal being pressed. It is operational at speeds over approximately 30 km/h.

Due to a safety feature, if cruise control cannot be activated, press the brake pedal and try again.

The cruise control lever is on the left side of the steering column. The lever has two switches which provide three buttons; **I**, **R** and **0**.

The top button is used to adjust speed. It is a two part switch, marked **I** (Increase) and **R** (Reduce). The lower button, marked **0**, is used to switch cruise control off.

Switch cruise control on

- Press the accelerator pedal until the vehicle is travelling at the desired speed (above 30 km/h).
- Tap the **I** button. You can now release the accelerator pedal as cruise control is now maintaining the vehicle speed.

Increase speed with cruise control

- Hold down button **I** or tap it repeatedly: the speed is increased continuously or in steps of 2 km/h without using the accelerator pedal.

When button **I** is released the selected speed is stored and maintained.

Decrease speed with cruise control

Hold down button **R** or tap it repeatedly: the speed is reduced continuously or in steps of 2 km/h. When button **R** is released the selected speed is stored and maintained.

CRUISE CONTROL cont.

Switch cruise control off

Cruise control is switched off when you:

- Tap button **0**. The vehicle slowly decelerates. To continue driving press the accelerator pedal in the usual way.
- Press the brake pedal.
- Press the clutch pedal.

Cruise control is switched off automatically when:

- the selector lever of vehicles with automatic transmission is moved to N.
- vehicle speed drops below 30 km/h.

Resuming the stored speed:

Tap button **R** at a speed above 30 km/h; cruise control resumes at the speed that was selected when it was last switched off.

The stored speed is erased when the ignition is switched off.

WARNING:

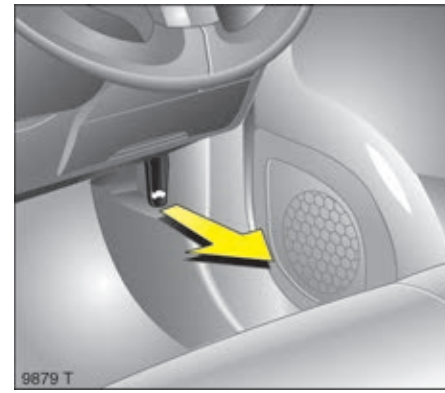
- **Do not use cruise control when the road or driving conditions could require varying speeds. A constant speed may not be practical in heavy or varying traffic or on winding, slippery or rough roads.**
- **Remember that when the cruise control is maintaining your speed, taking your foot off the accelerator pedal will not reduce the vehicle speed. To quickly deactivate the cruise control, press the brake or clutch pedal or press the 0 button.**
- **If your vehicle is fitted with an automatic transmission, it is advisable to switch on cruise control only when D (Drive) is selected.**
- **Cruise control will not apply the vehicle brakes, therefore, the vehicle may gain speed when going down steep hills.**
- **When climbing steep hills (particularly when towing) it is possible for the vehicle to lose speed. You may need to switch off cruise control and use the accelerator pedal.**

BONNET

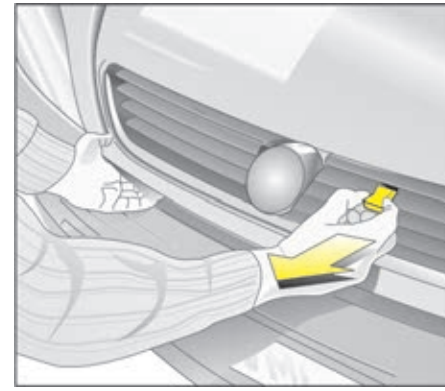
Open the bonnet

From inside the vehicle, pull the bonnet release lever (🚗) located below the right-hand end of the dashboard.

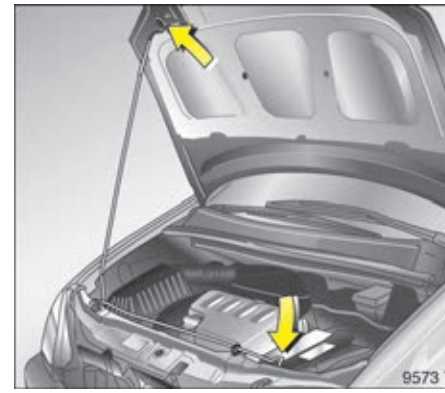
This releases the bonnet but it is prevented from opening by the safety catch.



To open the bonnet, pull the tab forwards, as illustrated, while lifting.



To fully open the bonnet, continue to lift it until the support rod can be inserted into the slot provided. Insert the support rod.



Closing the bonnet

Before closing the bonnet, press the support rod firmly into the holder and lower the bonnet gradually to be finally dropped by its own weight.

Always check that the bonnet is properly closed and that the release lever inside the vehicle has returned to its original position.

Notes

CHAPTER 2

Locks

Page

2-2 Key codes and locks
Child safety door switches

2-3 The remote control

2-4 Locking and deadlocking

2-5 Unlocking and immobiliser

2-6 Windows and emergencies

2-7 Tailgate

KEY CODES AND LOCKS

Security codes

Your vehicle has a security card which lists various security numbers for your vehicle. Please keep the security card in a safe place, away from your vehicle.

Before placing the key on your key ring, remove the key code number from the key, also take note of the key code on alloy wheels, if they are fitted with locks.

If your key is lost, replacements can be ordered through a Holden Retailer by quoting the key code number and providing proof of ownership.

Free turning door locks

The door lock cylinder is designed to free turn if it is forcefully rotated without the correct key or if the correct key is not fully inserted. To reset the door lock cylinder, turn the lock with the correct key until the slot is vertical. Remove the key then insert it again. If the lock still free turns, turn the key 180 degrees and repeat the operation.

Note: This feature is provided as a theft deterrent to prevent the lock being forced open. The force required to make the key free turn reduces each time it occurs. Because the force gets easier with each free turn, do not attempt to demonstrate or test this feature and always remember to fully insert the key when locking and unlocking the doors.

If you have problems with the free turning locks, contact your Holden Retailer. Also, refer to Chapter 9.

Fuel filler release

The fuel filler flap is unlocked whenever the doors are unlocked. Refer to Chapter 5.

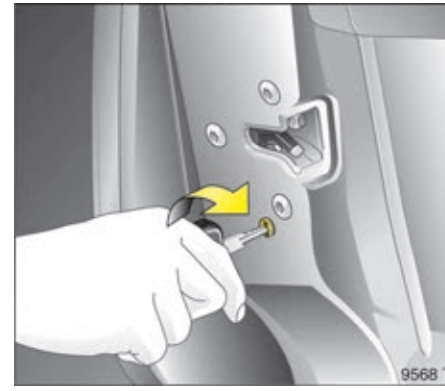
Child safety door switches

Child safety switches help prevent the rear doors from being opened from inside the vehicle.

The switches are located on the outer edge of the rear doors; accessible when the door is open.

To apply the child safety lock, use the key to turn the switch away from the vertical position.

With the lock applied, the door cannot be opened from the inside, it can only be opened by pulling up the inside door lock button and then raising the outside door handle.



WARNING:

For safety, after setting the child safety switch, check that it is operating correctly by trying to open the door from inside the vehicle.

THE REMOTE CONTROL

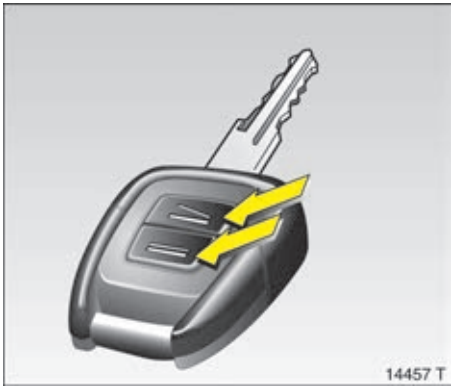
The remote control

The remote control is powered by a battery inside the key head. A weakening battery is indicated by a progressive loss of range, (that is, the key must be closer to the vehicle to operate the locking system).

Note: Metallic window tinting film reduces the range of the remote control.

Treat the remote with care; it should be protected against moisture and should not be operated unnecessarily.

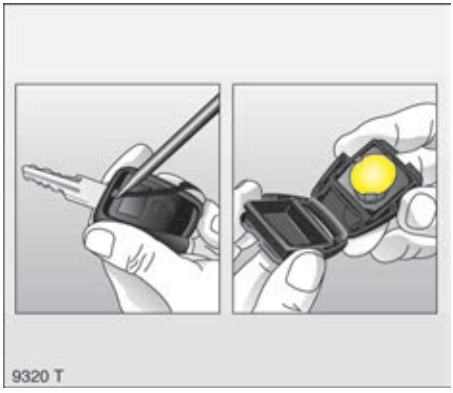
The hazard warning lights on the vehicle flash briefly when the remote control is operating.



Replacing the battery

Note: The battery change must be performed within 3 minutes or the remote control will require resynchronising.

- Insert a small screwdriver into the recess in the remote control and lift, as illustrated.
- Remove the key from the remote control.
- Open the remote control battery cover.
- Replace the battery ensuring that it is inserted correctly.
- Install the key into the remote control ensuring that it clicks into place.

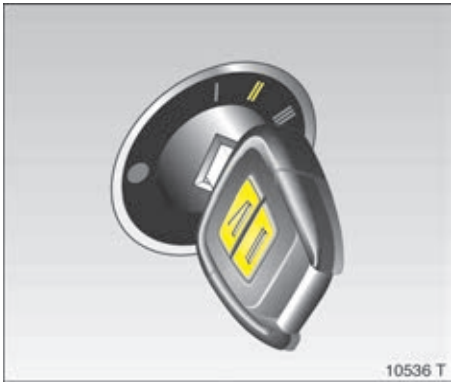


Synchronising the remote control

In the event of a malfunction, synchronise the remote control, as follows:

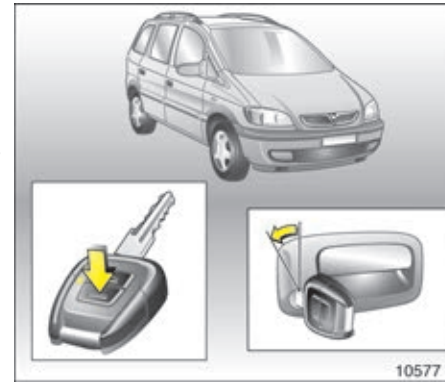
- Switch on the ignition; the system remains in synchronising mode for 30 seconds.
- Briefly press ⚌ or ⩥ on the remote control unit while it is in the ignition switch.

  The central locking system locks and unlocks to show that the remote control has been programmed.



LOCKING AND DEADLOCKING

Locking



The doors are locked when the inside lock buttons are down.

Note: The lock button on the driver's door cannot be moved down when the door is open. Also, the vehicle cannot be locked if the ignition key is in the ignition lock.

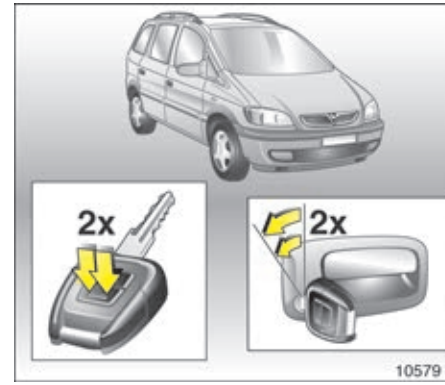
To lock the doors from inside the vehicle, press the lock buttons down.

To manually lock the doors from outside the vehicle, turn the key in driver's door, towards the rear of the vehicle.

To lock the vehicle remotely (doors, tailgate and fuel tank filler), press ⚌ on the remote control.

If the driver's door is not closed properly, the central locking system will unlock again immediately after remote locking.

Deadlocking



To deadlock all of the doors, within 10 seconds of locking:

- press ⚌ again, or
- turn the key in the driver's door lock towards the rear of vehicle then turn the key back to the vertical position and remove it.

Deadlocking locks all of the doors so that no door can be opened even if entry is gained by breaking glass. The doors can only be unlocked from outside of the vehicle with the correct key.

Note: Do not deadlock the doors if there are people in the vehicle. The doors cannot be unlocked from inside.

Overload

If the central locking system is overloaded as a result of repeated operation at short intervals, the power supply is cut off for approximately 30 seconds.

UNLOCKING AND IMMOBILISER

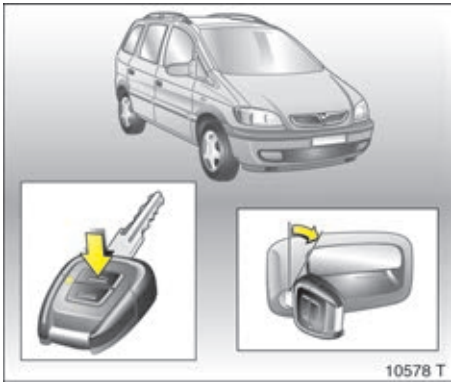
Unlocking

The doors are unlocked when the lock buttons are up.

To unlock the doors from inside the vehicle, lift the lock buttons up. Also refer to Child Safety Door Switches in this chapter.

To manually unlock the doors from outside the vehicle, turn the key in driver's door, towards the front of the vehicle.

To unlock the vehicle remotely (doors, tailgate and fuel tank filler), press ⊴ on the remote control.



Electronic immobiliser

The immobiliser system electronically disables the starting system. When the key is used to start the vehicle, the system checks the key. If the key is accepted as an 'authorised' key, the starting system is enabled and the vehicle can be started.

Activate

The immobiliser is activated when the ignition is switched to **0** and the key is removed.

Note: The immobiliser does not lock the doors.

Deactivate

The immobiliser is deactivated when the ignition is switched on with an authorised key.

Note: Deactivation is not possible in any other way, so keep a spare key in a safe place.

'Unauthorised' key

If the key is not authorised, 🚗 flashes in the instrument panel and the engine cannot be started.

- Turn the ignition switch to the lock position and remove the key.
- Insert the key into the ignition switch.
- Repeat the starting procedure.

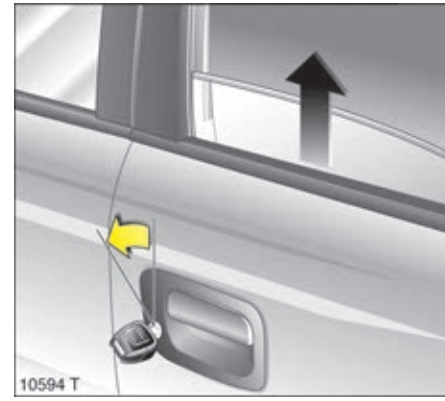
If 🚗 continues to flash, try to start the engine using the spare key.

Have your Holden Retailer check the system.

WINDOWS AND EMERGENCIES

Closing electric windows

Close the electric windows from outside the vehicle by holding the key in the door locking position until the windows are fully closed.

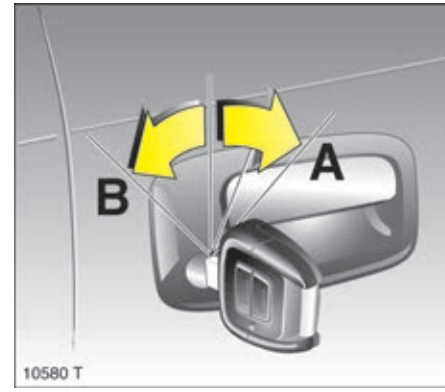


Emergency – flat battery

Unlocking and locking the driver's door in the event of malfunction of the central locking system (For example, due to a flat battery).

Unlock the driver's door:

- Turn the key in the driver's door lock towards the front of vehicle, turning it beyond its resistance point until it will not move any further (**A**).
- Turn the key back to the vertical position and remove it. (The lock button remains in the pressed position.)
- Raise the door handle.



Lock the driver's door:

- With driver's door closed, turn the key towards the rear of the vehicle until it will not move any further (**B**).
- Turn the key back to the vertical position and remove it.

Other doors can be unlocked manually using the door lock buttons.

Emergency – accident

Locked doors are unlocked automatically in the event of an accident provided that the ignition is not switched off. This enables entry and assistance from outside.

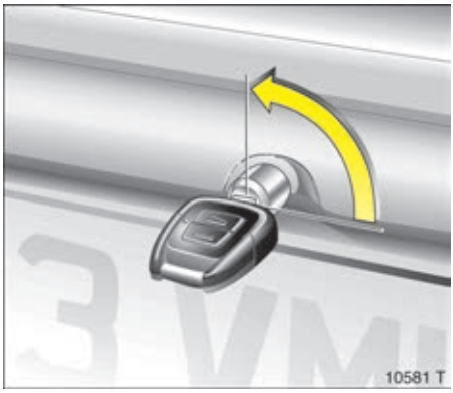
TAILGATE

Key slot position

The central locking system cannot be switched on or off from the tailgate lock.

When the tailgate lock slot is horizontal, it locks and unlocks with the remote central locking.

Turning the lock slot to the vertical position isolates the tailgate lock from the remote central locking system.



Lock

To keep the tailgate permanently locked (regardless of door lock position) turn the lock slot to the vertical position.

Unlock

To unlock the tailgate when the doors are locked, turn the key fully clockwise, as far as it will go. The key cannot be removed in this position. Press the button inwards to release the door.

Note: Fitting accessories onto the tailgate increases its weight. If it becomes too heavy, it will not stay open without assistance.

CHAPTER 3

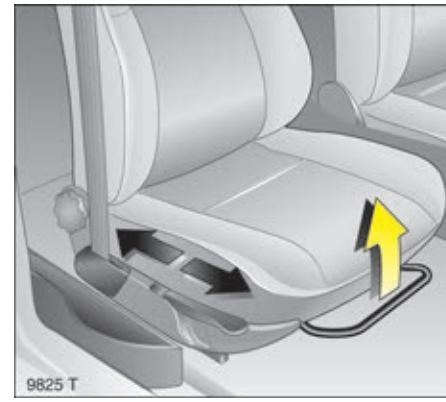
Know your vehicle

Page

3-2 Front seats
3-3 Second row seats
3-5 Third row seats
3-7 Luggage compartment enlargement
3-8 Luggage compartment cover
3-9 Head restraints
3-11 Seat belts
3-15 Child restraints
3-18 Drink holders
3-19 Mirrors
3-20 Windows
3-22 Interior lights
3-23 Park brake

FRONT SEATS

Front seat – forward / rearward



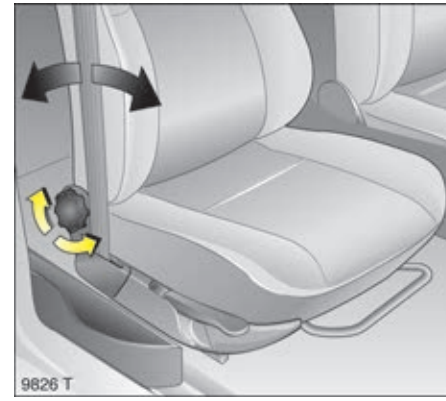
1. Lift the lever at the front of the seat.
2. Slide the seat forward or backward as required and release the lever.
3. Ensure the seat audibly latches into position.

WARNING:

Never adjust the driver's seat while driving. The seat could move suddenly and cause the driver to lose control.

Front seat – recline / incline

To adjust the angle of the seat-back, turn the handwheel, as illustrated.



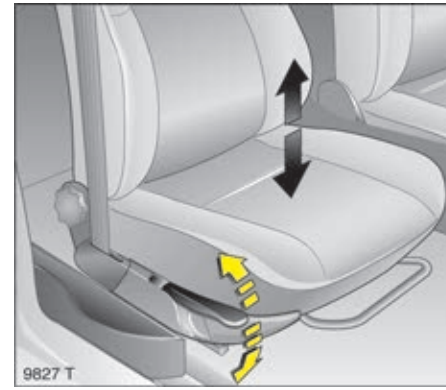
WARNING:

To avoid reducing effectiveness of seat belts, it is recommended that the seat backrests be reclined to no more than a semi-reclined position when the vehicle is moving. The fully reclined position should be used only when the vehicle is stationary.

Driver's seat – height adjustment

Pump the lever on the door-side of the seat, as illustrated:

- upwards to raise the seat height
- downwards to lower the seat.



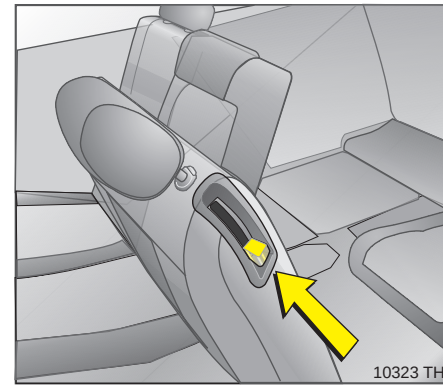
SECOND ROW SEATS

Fold down the seat-back

To assist passengers entering and leaving the third row seats, fold the outboard second row seat–back forward. To do this, lift the release lever and tilt the back of the seat forward.

To return the seat to the upright position, lift the release lever and adjust the seat-back.

The outboard seats in the second row can be folded down and also adjusted to recline.

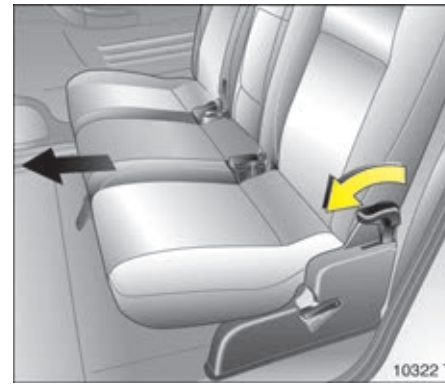


WARNING:

To avoid the risk of injury, when tilting the seat-back down or to the upright position, ensure that hands are clear of the hinges.

Move the seats

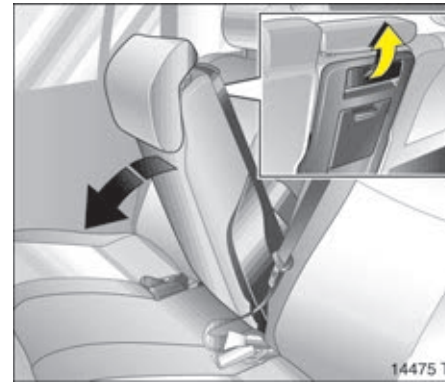
1. Push the release handle on side of the seat bench.
2. Move the seat row into position and release the handle.
3. Ensure that the seat row locks into position.



Fold down the centre armrest

When the centre seat is unoccupied, the centre seat-back can be folded down.

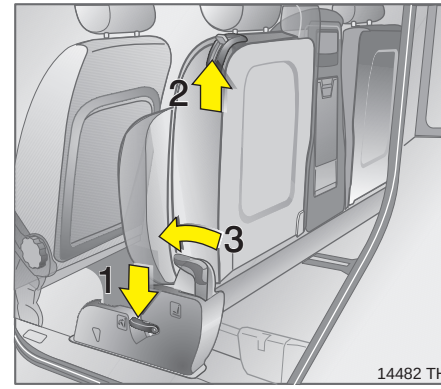
1. Fully lower the centre seat head restraint. Refer to Headrests in this chapter.
2. Lift the top handle at the back of the centre seat.
3. Fold the armrest onto the seat cushion, ensuring that it latches into position.
4. Push the lower rear handle at the back of the centre seat and fold the armrest out.



SECOND ROW SEATS cont.

Fold the seat bench up

1. Place the seat belt buckles into the seat pockets on the seat bench.
2. Lift the release lever of the centre seat and tilt the centre seat-back down onto the seat bench.
3. Push down on the lower handle on the side of the seat bench (1) to lift the seat bench and latch it into the upright position.



Move the seat-backs upright

1. Push down on the upper handle on the side of each end of the seat bench (2).
2. Lift the seat-backs until they latch into the upright position.
3. Lift the release lever of the centre seat and tilt the centre seat-back to the upright position.

Move the seats forward

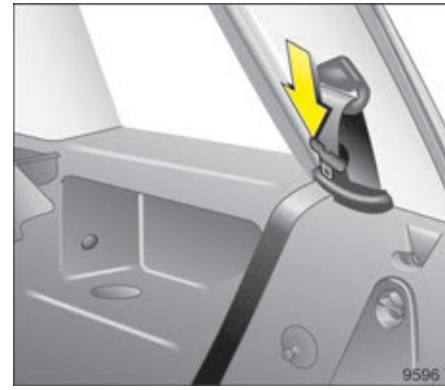
1. Push down on the middle handle on the side of the seat bench (3).
2. Slide the seat bench as far forward as possible and latch it into position.

Note: All positions must latch audibly.

THIRD ROW SEATS

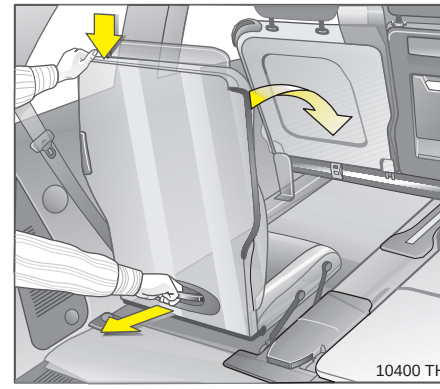
Lower the seats to the floor

1. Move the second row seats fully forward.
2. Adjust the third row head restraints fully down.
3. Guide the outboard seat belt through the fixture as illustrated, inserting the latch plate into the fixture.



4. From the luggage compartment, press the button at the top of the seat-back and push the seat-back forward.
5. Raise the seat using the handle at the base of the seat-back and push the seat-back further forward until the seat is lowered into the vehicle floor.

Note: Hold the seat by the handle during the entire seat movement into the vehicle floor.

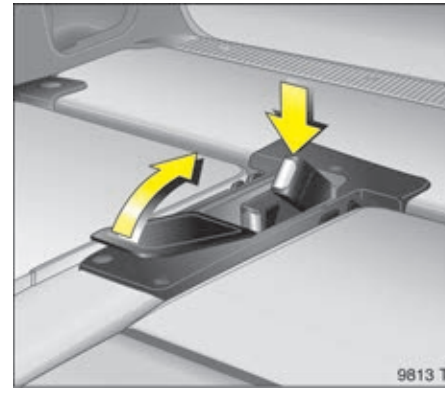


WARNING:

To avoid the risk of injury, when tilting the seat-backs down or to the upright position, ensure that hands are clear of the hinges.

Protect the seat belt buckles

Push the seat belt buckles into the recess in the floor and close the cover.



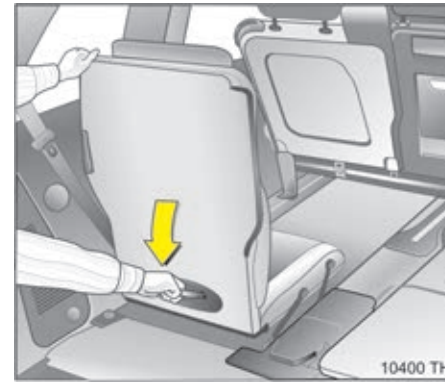
THIRD ROW SEATS cont.

Set the third row seats for passenger use

1. Move the second row seats forward. Refer to 'Lower the seats to the floor', in this chapter.
2. From the luggage compartment, use the handle at the base of the seat-back to pull the seat .

3. Support the seat-back and raise the seat until it is upright.
4. Ensure the seat has latched into the upright position.
5. Open the cover in the floor between the seats and pull out the seat belt buckles.
6. Release the seat belt from behind the hook.

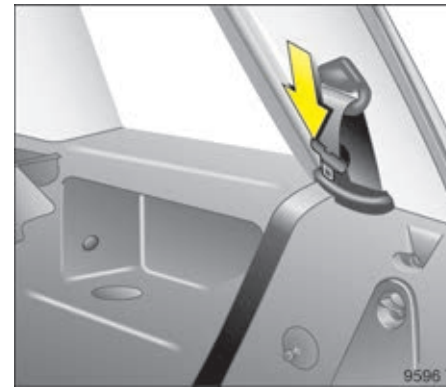
   Note: The seat belt must not pass behind the hook when in use for passengers.



LUGGAGE COMPARTMENT ENLARGEMENT

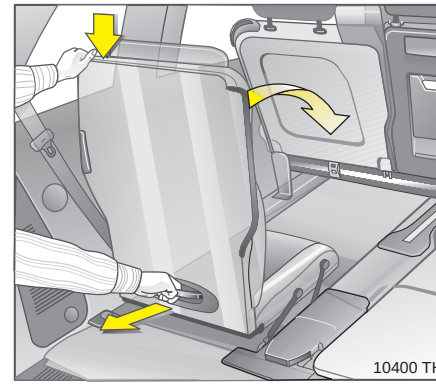
Lower the seats to the floor

1. Fold the second row seat bench to the upright position.
2. Move the second row seat-backs to the upright position.
3. Move the second row seats fully forward.
4. Adjust the third row head restraints fully down.
5. Guide the outboard seat belt through the fixture as illustrated, inserting the latch plate into the fixture.



6. From the luggage compartment, press the button at the top of the seat-back and push the seat-back forward.
7. Use the handle at the base of the seat-back to raise the seat and push the seat-back further forward until the seat is lowered into the vehicle floor.

Note: Hold the seat by the handle during the entire seat movement into the vehicle floor.



WARNING:

To avoid the risk of injury, when tilting the seat-backs down or to the upright position, ensure that hands are clear of the hinges.

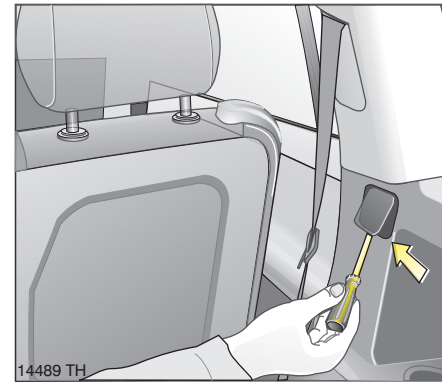
8. Protect the seat belt buckles. Refer to Third Row Seats in this chapter.
9. Move the second row seats back, as required.

Both seats can be lowered if required.

LUGGAGE COMPARTMENT COVER (if fitted)

Install the cover

1. Disengage the retainer covers from the side trim and store them in the glovebox.
2. Insert the luggage compartment cover into the left-hand side retainer and then the right-hand side retainer.
3. Press the knob on the right-hand end of the cover to lock the cover in place.



Before use

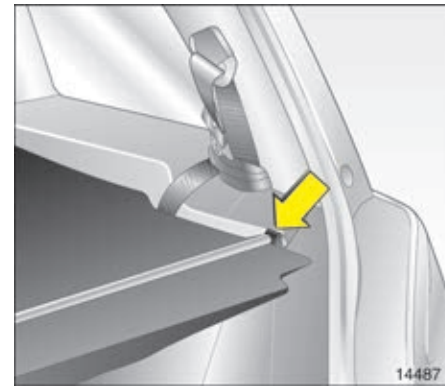
Before using the cover, insert the rear outboard seat belts into the belt retainers.

Close the cover

Using the cover handle, pull the cover towards the rear of the vehicle and fit it into the retainers, as illustrated.

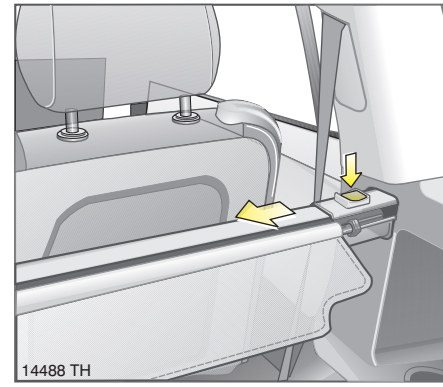
Open the cover

Disengage the cover from the retainers at each side and allow it to gently retract.



Remove the cover

1. Open the cover.
2. Press the knob on the right-hand end of the cover and slide it towards the left until it locks in place.
3. Remove the cover from the right-hand retainer and then from the left-hand retainer.
4. Install the retainer covers; they are marked L or R to identify correct location.



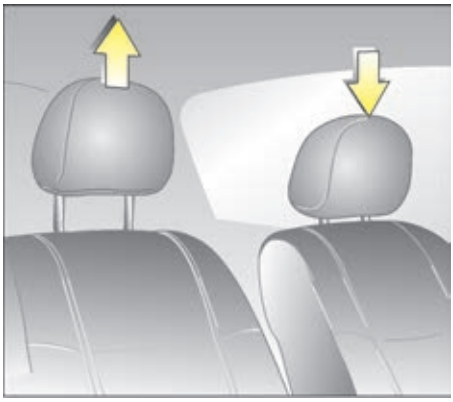
WARNING:

When the luggage compartment cover is installed, there may be a limitation in the use of the third row seats. It is not recommended that the third row seat be used on the rearmost reclined position when the luggage compartment cover is installed.

HEAD RESTRAINTS

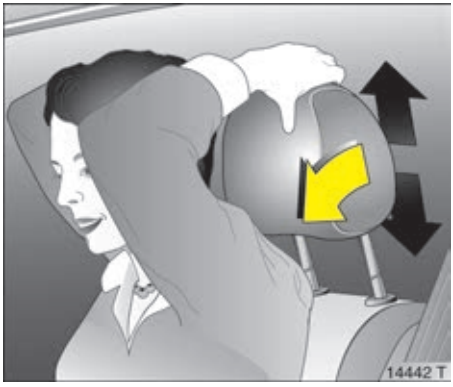
Height

Adjust the height of the head restraint. The upper edge of the head restraint should be approximately at eye level – never at neck level. If this is not possible for very tall passengers, the restraint should be set at its highest position.



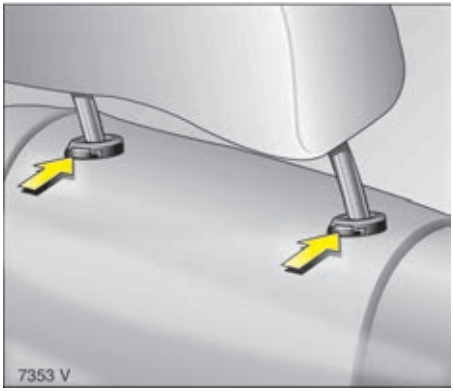
Head restraints – front seats and second row outer seats

Tilt the head restraint forwards and hold it firmly. Adjust the height, then release.



Removal

To remove a head restraint, squeeze both locking springs as illustrated and lift the head restraint up and out.



HEAD RESTRAINTS cont.

Head restraint – second row centre seat and third row seats

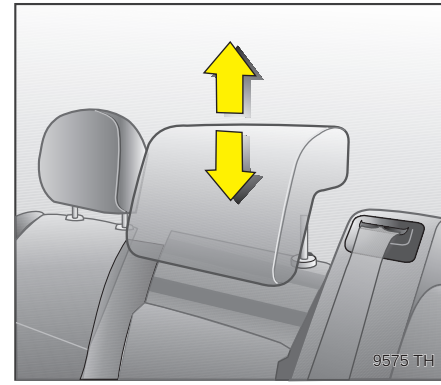
Push the head restraint fully down:

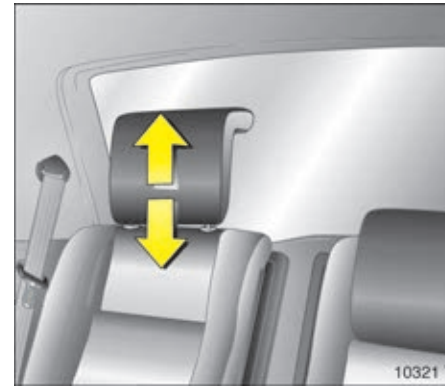
- before folding down the rear seat backrests
- to improve visibility when the centre rear seat is unoccupied.

To adjust the height of the head restraint, press both of the spring latches at the base and lift or lower the restraint as required.

Set the height of each head restraint based on the height of the passenger.

Note: Ensure that the head restraint is locked into position and not set above the locking positions.





SEAT BELTS

Lap-sash belts

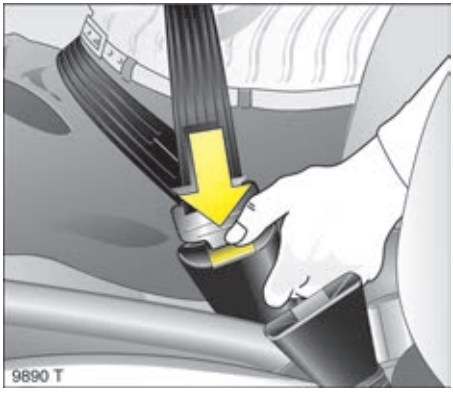
To put on a lap-sash seat belt, pull the metal tongue across your body and clip it into the buckle. The metal tongue locks correctly into place with a click.

After fastening the seat belt, settle it at the hip and tension the belt by tugging the sash upward. Any extra belt length retracts automatically.

The lap section should be worn as low as possible on your hips; not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and fit firmly.

The emergency locking retractor belt allows you to move freely while the vehicle is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To release the seat belt, press the button on the buckle as illustrated and allow the belt to retract. Check that it fully retracts without twisting.



SEAT BELTS cont.

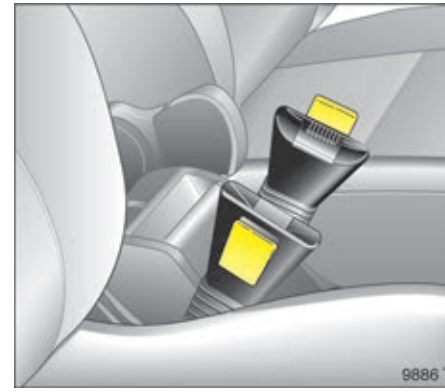
Seat belt pretensioners

The front seat belt system incorporates one-use-only belt pretensioners.

In the event of a moderate to severe head-on or tail-end collision, the belt buckles are pulled downwards, instantly tightening the belts.

If the belt pretensioners have been actuated, the symbol illuminates in the instrument panel and yellow tabs become visible on the buckles.

Note: Although the seat belt may remain operational apart from this feature, the entire system must be replaced by a Holden Retailer.



To check that the bulb is working, the symbol illuminates for a few seconds when the ignition is switched on. If it does not go out within 4 seconds or if it comes on during driving, there is a defect in the system. In this case, the belt pretensioners and / or the airbag system might not work in an accident. Have a Holden Retailer check the systems as soon as possible.

To prevent malfunctions, do not place magnetic objects in the immediate vicinity of the centre console, where the electronics for the system are located.

WARNING:

The belt pretensioners may trigger suddenly and cause injury if they are handled incorrectly. Therefore, front seats and belts should only be removed, disposed of and replaced by a Holden Retailer.

SEAT BELTS cont.

Australian law requires that the driver and all passengers be properly restrained at all times with the seat belts provided in the vehicle. Failure to do so could increase the chance of injury and / or the severity of injury in accidents.

WARNING:

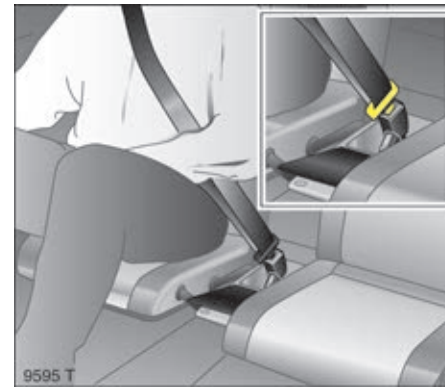
- **Seat belts are designed to bear upon the bony structure of the body and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable. Wearing the lap section of the belt across the abdominal area must be avoided.**
- **Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.**
- **Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.**
- **It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious. Belts should not be worn with the straps twisted.**
- **Each seat belt assembly must only be used by one occupant at a time; it is dangerous to put a seat belt around a child being carried on the occupant's lap.**
- **No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.**
- **The positioning of the tongue restrictor must never interfere with or stop the belt from fully retracting.**
- **On pregnant women in particular, the lap belt must be positioned as low as possible across the pelvis so as not to put too much pressure on the abdomen.**

SEAT BELTS cont.

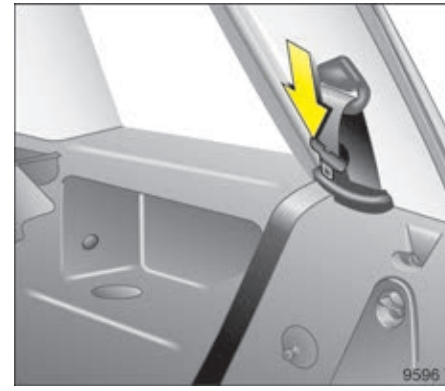
Seat belts in third row seats

1. Open the cover in the floor between the seats and access the belt buckles.
2. Remove the belt from behind the hook.

Note: The belt must not pass behind the hook when in use for passengers.



When not in use, pass the seat belt behind the hook and insert the latch plate in the fixture, as illustrated.



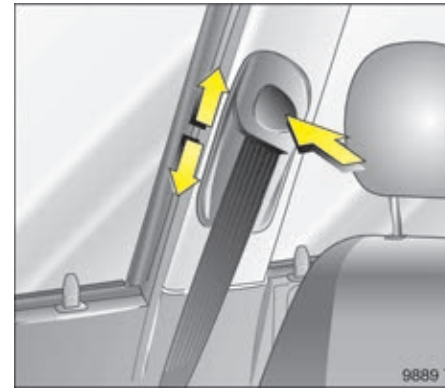
Seat belt height adjust (if fitted)

1. Pull the belt slightly outwards.
2. Slide the guide upwards or press the button to slide the guide down.
3. Release the belt guide at the required position and ensure that it clicks into position.

Adjust the height so that the belt passes over the wearer's shoulder, resting against the shoulder. It must not pass over the neck or upper arm.

Short people should select a low belt guide position and tall people a higher one.

Ensure that the seat belts are not damaged or trapped by sharp-edged objects.



CHILD RESTRAINTS

Child restraints

Always ensure that the seat belt fits firmly around the child restraint. If a child cannot see out of the window, do not raise the child by means of an ordinary cushion. The cushion will not stay in place in a collision and the child can slip out of the straps and become entangled.

WARNING:

- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.**
- **Only child restraints that have clips to attach to the vehicle's anchorage fittings are to be used (refer to the illustrations on the following pages).**
- **Earlier types of child restraints may not attach securely to this type of anchor and should not be used.**
- **Only Standards Australia approved child restraint harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval. Consult your Holden Retailer for advice about the various types of approved child restraints available.**

WARNING – EXTREME HAZARD:

- **Do not use a rearward facing child restraint on a seat protected by an airbag in front of it. The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.**

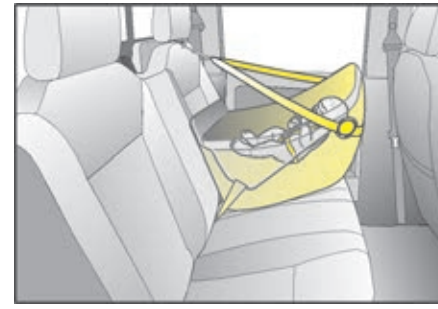
WHICH TYPE OF CHILD RESTRAINT FOR YOUR CHILD?

Children should be restrained at all times and fitted with a child restraint appropriate to their size when travelling in a vehicle. Following are some guidelines about selecting the appropriate restraint for your child.

Infants

Rearward facing infant capsule		
Weight	**Height**	**Approx. Age**
Less than 9 kg	Less than 70 cm	Up to 6 mths

Designed so that in the event of a collision, impact forces will be evenly spread over the baby's back, with minimal jarring to the vulnerable head and neck area.



Rearward facing child capsule

Young children

Forward facing child seat		
Weight	**Height**	**Approx. Age**
8 to 18 kg	70 to 100 cm	6 mths to 4 yrs

For use when the child is able to sit and easily hold his or her head upright. It is also possible to purchase convertible seats which can be used as a rearward facing child restraint or converted to a forward facing child seat.

Forward facing child seat

Booster seat with lap / sash seat belt		
Weight	**Height**	**Approx. Age**
–	More than 100 cm	4 to 10 yrs

When children outgrow a typical forward-facing child seat but they are still too small for lap-sash seat belts. A booster seat raises the child so that the knees bend comfortably, the lap-sash seat belt is correctly positioned and the child can see out the window. A rigid booster seat with a back, side wings and sash guide gives the best protection. In assessing the range of children who would benefit from booster seats, height is a better indicator than age or weight.

Booster seat with lap-sash seat belt

Older children

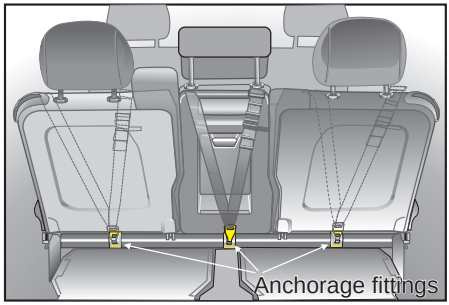
A child should use a normal lap-sash seat belt only when:

- he / she can sit against the back of the rear seat with knees bent comfortably at the edge of the seat,
- lap belt rests low and snug across the hips – not across the stomach,
- sash belt is centred on shoulder and chest,
- he / she is able to stay seated like this for the entire trip.

Adult lap-sash seat belt

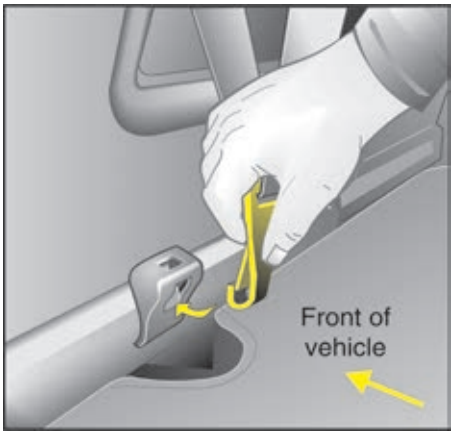
CHILD RESTRAINTS cont.

Three anchorage positions are provided behind the second row seats, as illustrated.



Note:

- A child restraint must only be attached to the anchorage point provided directly behind the restraint. It must not be attached to anything else, for example luggage hooks or a cargo restraint. These are not designed to take this load.
- If a child restraint is fitted, the second row seat must be tilted back as far as it can go.
- There must be no slack or twist in the straps after installation.
- Centre position: The strap / straps from the child seat to the centre anchorage point on the vehicle must be threaded between the pins of the centre head restraint on the seat. The strap / straps must not go around the head restraint.
- Avoid carrying objects in the luggage compartment which could sever the straps or damage an anchorage fitting.
- The anchorage fitting must not be used without the plastic cover or when the plastic cover is damaged. First replace the cover.



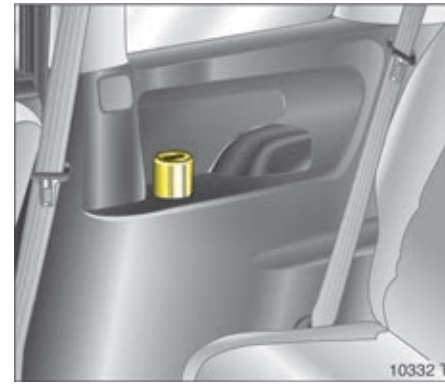
WARNING:

The anchor fittings referred to on these pages are only applicable to child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments). Older child restraints may not attach securely to this type of anchor.

DRINK HOLDERS

Locations

- Below the ashtray in the front console area.
- In the front door pockets.
- In the second row seats, centre armrest.
- In the side storage compartments in the third row seats.



MIRRORS

Interior rear view mirror

To adjust the mirror, grasp and swivel it to the required position.

Pivot the lever on the lower edge of the mirror to reduce headlight glare or 'dazzle' at night.

Electric exterior mirrors

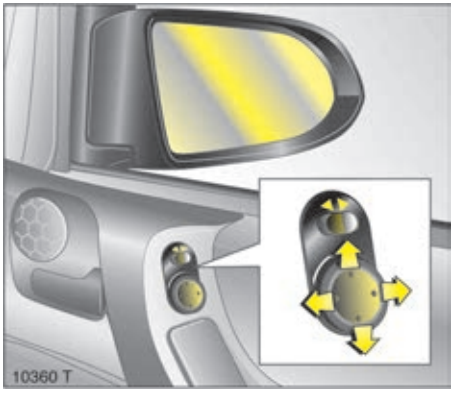
The driver's door panel incorporates two mirror adjustment switches:

- a two-position switch
- a four-way rocker.

Use the two-position switch to select the left mirror or the right mirror as required.

Move the rocker switch to the left, right, up or down to tilt the mirror in the corresponding direction.

Note: The passenger-side exterior mirror is convex shaped, which makes objects appear further away than they actually are.



Safety

For the safety reasons, the exterior mirrors swing out of the normal mounting position under impact. Move the mirrors back into position using slight pressure on the housing.

Demisting

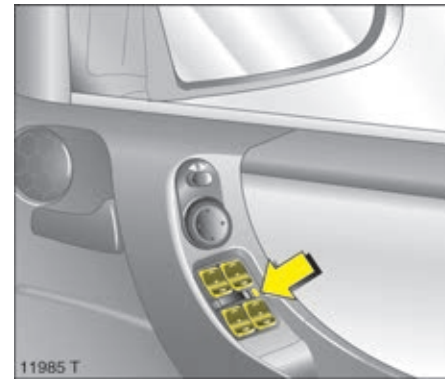
The electric mirrors are demisted when the rear window demister is switched on. Refer to Chapter 1.

WINDOWS

Electric windows

The control panel in the driver's door incorporates four rocker buttons to raise and lower the front and rear windows and a safety switch to isolate the rear window switches.

Additional rocker switches are located on the rear doors for control of the rear windows.



Safety switch

Move the safety switch to the left to isolate the rear window switches. The red indicator illuminates.

Move the switch to the right to enable the rear window switches.

Operation

To operate the window in stages, tap the switch. For automatic closing or opening (if fitted), keep the switch pressed for slightly longer. To stop automatic opening or closing, tap the switch again.

Protective system

If the window glass encounters resistance when it is above half way during full closing, window movement is immediately reversed; the window will open.

To override this protective system (for example, if the windows do not move easily due to frost) repeatedly tap the switch until the window has been closed in stages.

WARNING:

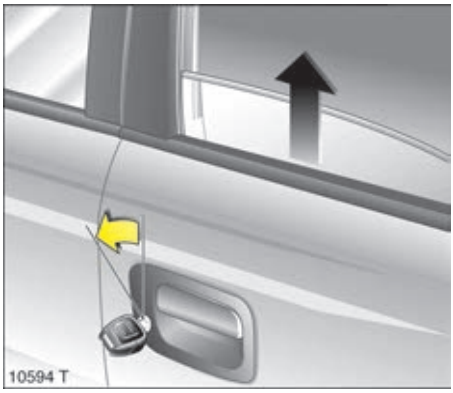
Remove the key from the ignition when leaving the vehicle, to avoid risking injury to children. For example, through incorrect use of electric windows.

WINDOWS cont.

Closing the windows from outside

The windows can be opened or closed from outside of the vehicle by using the key in the driver's door lock.

Hold the key in the door locking position until the windows are fully closed.



Overload

If the system is overloaded, the power supply is cut off for a short time before being restored.

Interruption of power supply

Automatic opening and closing of the windows may not be possible after an interruption to the power supply. For example, due to a flat battery, disconnected battery or a blown fuse. After the problem has been fixed, reprogram the windows as follows:

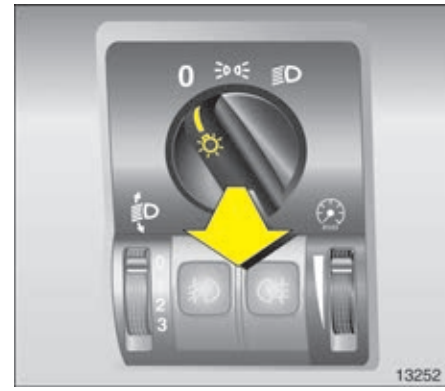
1. Close the doors.
2. Switch on the ignition.
3. Close each window and hold the up button for at least a further 5 seconds.

INTERIOR LIGHTS

Front interior light

The front interior light illuminates when:

- the dial in the centre of the headlight switch is pulled as illustrated, or
- a door is opened.



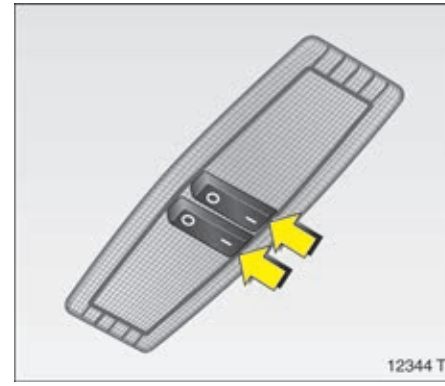
Rear interior light

The rear interior switch has three positions:

0 Off

Centre When a rear door is opened.

1 On



Luggage compartment light

The luggage compartment light illuminates when the tailgate is opened.

Glovebox light

The glovebox light illuminates when the ignition is on and the glovebox is opened.

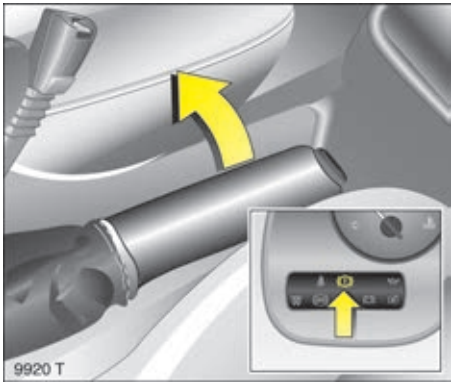
PARK BRAKE

Apply

To apply the park brake, pull the lever up.

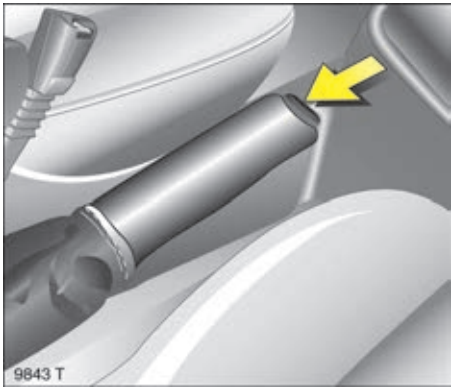
When the ignition is on and the park brake is applied, (!) illuminates. Refer also to Warning / Reminder Lights in Chapter 1.

Note: Never drive the vehicle with the park brake applied.



Release

To release the park brake, pull the lever slightly upwards, push in the release button as illustrated and fully lower the lever.



Notes

Notes

CHAPTER 4

Driving

Page

4-2 Engine starting
Running-in

4-3 Safety

4-4 Automatic transmission

4-6 Manual transmission

4-7 Driving precautions

4-8 Snow chains

4-9 ABS

4-10 Traction control

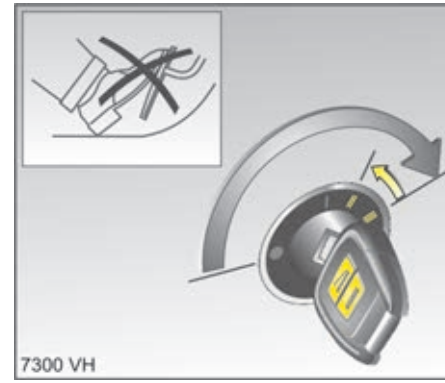
ENGINE STARTING

Starting the engine

1. Firmly apply the park brake. Release it only after you have started the engine and are ready to drive off.
2. MANUAL: Press the clutch pedal and move the shift lever to the neutral position. The clutch pedal can now be released.

   AUTOMATIC: Move the shift lever to P (park) or N (neutral).

   Note: The ignition must be on and the brake pedal pressed to enable the shift lever to be moved away from P (park).
3. Keep your foot off the accelerator pedal prior to and during starting. Pressing the accelerator pedal increases cranking time. It does not help the engine to start.
4. For both cold and hot starting, turn the key to **III** only until the engine starts, then release the key.



If the engine will not start after 15 seconds of cranking, wait approximately 15 seconds before trying again. This allows the starter motor to cool.

If the engine will not start and the check engine warning light (🔧) in the instrument panel is flashing, turn the ignition off for at least 2 seconds and try again.

If the engine still fails to start, consult a Holden Retailer.

Running-in (for the first 1000 km especially)

The future performance and reliability of the engine depends largely on the care and restraint that you exercise during running in. Adhere to the following practices while the vehicle is running-in:

- After starting, do not race the engine; gradually warm it up.
- Start off slowly from a standstill.
- Drive your vehicle at various speeds. This improves the bedding-in of parts.
- Make good use of all of the gears. Press the accelerator pedal only up to 75 percent of full travel, in all gears and drive ranges.
- Avoid hard braking during the first 200 km (and after new brake pads have been fitted).
- Do not use full throttle and do not allow the engine to labour.

Switching off a hot engine

If the engine temperature is very high, (for example, after driving in hilly areas) then allow the engine to idle for approximately 2 minutes before switching it off. This helps prevent heat accumulation. When the engine is hot, the cooling fan may remain on for several minutes after the ignition is turned off.

SAFETY

Before entering the vehicle:

- check that the windows, mirrors and lights are clean
- check that the tyres are not flat.

Before driving off:

- be sure that all of the doors are secured
- position your seat for comfortable driving
- adjust the rear view mirrors
- FASTEN SEAT BELTS
- check that the warning indicators light up when you turn the key to start the engine (refer to Chapter 1)

Note:

Automatic: To move the shift lever away from P (park), switch the ignition on and press the brake pedal.

Manual: When starting off on a very steep hill, it may be helpful to turn traction control off. Refer to Traction Control in this chapter.

Parking

1. Apply the park brake.
2. Automatic: Move the shift lever to P.

   Manual: Move the shift lever to first or reverse gear.
3. Shut the windows.
4. Switch off the exterior lights.
5. Turn ignition key to ● (lock) and remove the key.
6. Swivel the steering wheel to apply the lock.
7. Lock the doors and set the deadlock, if appropriate (refer to Chapter 2).

WARNING:

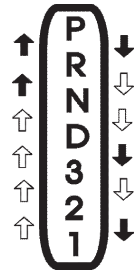
Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

Never leave the engine running in an enclosed space, such as a closed garage or underground car park.

AUTOMATIC TRANSMISSION

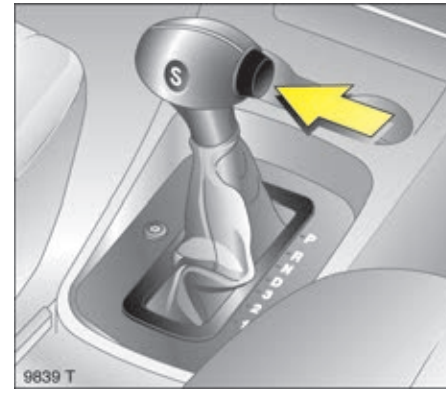
To move the shift lever out of P (Park):

- switch on the ignition
- press the brake pedal
- press the button on the side of the lever
- move the shift lever.



Push the button (illustrated) when shifting into any position indicated by the black arrow.

You may shift (without pushing the button) into any position marked by the outline arrow.

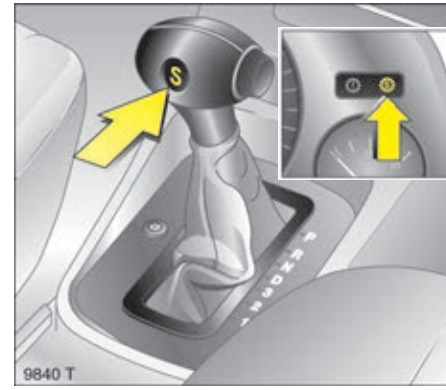


Sports / economy drive

Press the **S** button on the shift lever handle to toggle between sports drive and economy programmes.

When the sports programme is selected, the transmission changes gear at higher engine speeds and illuminates in the instrument panel.

Note: After the engine has initially been started and D is selected, the economy programme is automatically selected.

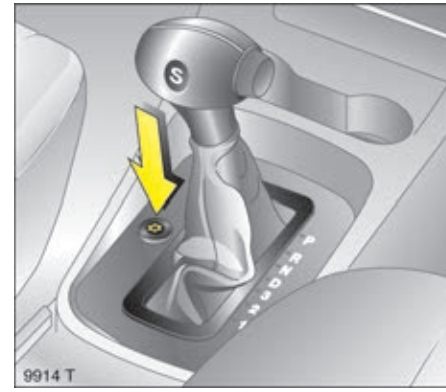


Starting- off aid

In the event of starting-off difficulties, for example on slippery roads, press , as illustrated.

Press again to switch the system off.

The starting-off aid is automatically cancelled when the shift lever is moved to 2 or 1 or the ignition is switched off.



AUTOMATIC TRANSMISSION cont.

P (park) Never select P unless the vehicle is fully stopped. This stops the front wheels from turning and so should be selected when leaving the vehicle (together with the park brake). The brake pedal must be pressed and the ignition on before the shift lever can be moved away from P.

R (reverse) Never select R unless the vehicle is fully stopped. The reverse lights operate when R is selected and the ignition is on. After reversing, ensure the vehicle has fully stopped before selecting a forward gear.

N (neutral) This is the out-of-gear position. In this gear you may restart a stalled engine while the vehicle is still moving or stopped.

D (fourth) This is the most effective position for normal or freeway driving. The drive position allows for maximum fuel efficiency as the transmission shifts to the appropriate gear (first to fourth) for the driving conditions.

3 (third) Third is most effective when overtaking and gives responsive acceleration and deceleration. This gear is especially useful in hilly areas. The transmission shifts between first, second and third gear as required.

2 (second) Second is most effective when going down a steep gradient, to avoid excessive use of the brakes. The transmission shifts between first and second gear as required. Select D to return to normal driving.

1 (first) First is most effective when a strong braking effect is needed down a very steep gradient. After descending, remember to select D (drive) to enable the transmission to shift into higher gears and return to normal driving.

Note: If 1 is selected when the vehicle speed is too high, the transmission remains in 2 until the vehicle has slowed down sufficiently.

Neutral Idle Control

This feature is designed to reduce fuel consumption when idling and stationary. Neutral Idle Control electronically shifts the transmission into neutral (without moving the shift lever) when the engine is idling, the transmission is in a forward gear (1, 2, 3, D) and the brake pedal is pressed. When the brake pedal is released, the transmission shifts back into the gear selected by the shift lever.

Notes

- Before selecting a lower gear while driving, ensure that the vehicle speed is sufficiently reduced.
- Do not press both the accelerator and brake pedals while in gear (1, 2, 3, D or R) unless drying the brakes (refer to Driving Precautions in this chapter). This will overheat the transmission.
- Do not use the accelerator pedal to hold the vehicle on a slope. Use the brakes.
- Do not coast the vehicle in N. This reduces vehicle control and negates engine braking power.
- Refer to Chapter 7 when checking the automatic transmission fluid level.
- The engine will not start unless the shift lever is in P or N.
- FAULT: A transmission fault is indicated if the ⚙ fault light is illuminated, if the vehicle suddenly will not accelerate as usual or will not shift down to a lower gear when the the accelerator pedal is pressed to the floor. Use the shift lever to manually select the gears and have a Holden Retailer repair the cause as soon as possible.

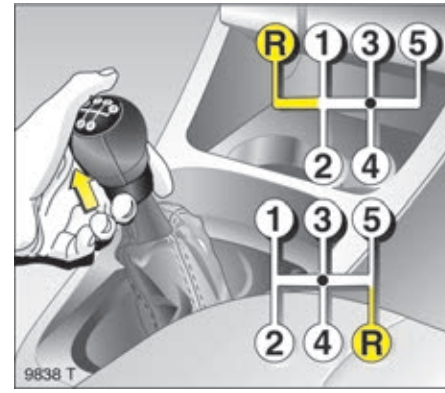
MANUAL TRANSMISSION

This system has five forward gears and a reverse gear. The shift pattern for your vehicle is shown on the top of the shift lever.

When selecting fifth gear, gently push the shift lever to the right against light spring pressure in order to pass into the gear.

When selecting reverse gear, lift the ring beneath the shift lever knob and move the lever into the reverse position.

If reverse gear does not engage easily, release and press the clutch pedal or try selecting another gear, then try reverse gear again.



Shift speeds

This chart lists the recommended speeds to change up a gear for normal driving. To assist in maximising fuel economy, use the Economy shift speeds.

It may be necessary to shift up a gear at higher road speeds based on changing driving conditions such as load, road gradient, during overtaking and when other than light acceleration is required.

Manual transmission change speeds		
Gear change	Normal	Economy
1st to 2nd	20 km/h	20 km/h
2nd to 3rd	32 km/h	30 km/h
3rd to 4th	50 km/h	40 km/h
4th to 5th	70 km/h	55 km/h

Operating notes

- When shifting from one gear to another, be sure to press the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.
- Never attempt to engage reverse gear until the vehicle has completely stopped. A slight pause between pressing the clutch pedal and moving the shift lever into reverse gear is desirable. This allows the rotating components to stop and avoids gear clashing. Whenever reverse gear is selected with the ignition on, the reverse lights operate.
- Move the shift lever with a moderate effort, allowing time for the transmission synchronisers to work properly.
- Do not drive with your foot resting on the clutch pedal. This can cause substantial clutch wear.
- When stopped on an incline, do not hold the vehicle by slipping the clutch. Use the park brake or brake pedal.
- To maintain safe speeds on steep gradients and to reduce brake wear and overheating, shift the transmission into a lower gear before starting the descent.
- Do not over-speed the engine when shifting down to the next lowest gear.

DRIVING PRECAUTIONS

Brakes

- Power assisted brakes (fitted to your vehicle) use vacuum from the engine when it is running. Never let the vehicle run down steep grades without the engine running and never coast with the engine switched off.
- Driving through water may affect braking performance. Apply the brakes lightly to determine if they need drying. To dry them quickly, apply the brakes lightly while maintaining a slow forward speed (with an assured clear distance ahead) until brake performance returns to normal.
- Brake pedal travel should not be obstructed by any material under the pedal which causes interference with normal pedal movement, such as ill-fitting floor mats.
- Position your seat so that you can satisfactorily push the brake pedal under all braking conditions.

Power steering

If the power steering becomes ineffective due to the engine stalling or insufficient power steering fluid, the vehicle can still be steered. However, much greater effort is required so it is recommended that the system is repaired as soon as possible.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Whenever possible, loads stowed in the luggage compartment should be firmly secured. Refer to Chapter 10.

WARNING:

Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported that a purpose-built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some states.

Tyre traction

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Adjust driving practices and vehicle speed to suit the road conditions.

Engine misfire

If the engine is misfiring, reduce speed and do not tow a caravan or trailer until the misfiring is corrected. Otherwise, the catalytic converter and exhaust system may overheat, resulting in vehicle damage. Consult the nearest Holden Retailer.

SNOW CHAINS

Snow chains

Your vehicle is front wheel drive, therefore snow chains are fitted only on the front (driving) wheels.

They must be fitted symmetrically on the tyre and seated concentrically. Only fine-linked chains should be used. The chain (including the chain lock) should not protrude more than 15 mm from the tyre tread or from the inner tyre wall.

If large hub caps come into contact with the chains, remove the hub caps.

WARNING:

- **Tyre chains must only be used at speeds up to 50 km/h.**
- **When travelling on roads that are free of snow, chains should only be used for brief periods.**
- **Chains are subject to rapid wear on hard roads and may snap.**

Loading the vehicle

Loading the vehicle changes the mass distribution and therefore the handling of the vehicle when driving. After loading the vehicle, extra care should be taken to become familiar with the handling and feel of the vehicle. Refer to Chapter 10.

ABS

Monitoring

The Anti-lock Brake System (ABS) continuously monitors the vehicle's brake system and prevents the wheels from locking, irrespective of the road conditions and tyre grip. It starts to regulate the braking pressure as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even in the event of panic braking, for instance when swerving to avoid an obstacle or on bends.

Note: Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style.

The braking effect is regulated by the ABS every millisecond during braking.

Operation

When active, ABS operation is noticeable through pulsing of the brake pedal and the noise of the regulation process. To achieve optimum braking, keep the brake pedal pressed fully throughout the braking process. Use this as a reminder to match your speed to the road conditions, even though ABS is keeping control of the braking.

In an emergency braking situation, the driver should keep full force on the brake pedal without pumping it. Pumping the brake pedal can reduce brake efficiency when ABS is controlling the braking.

Indicator light

When the ignition is switched on, (ABS) illuminates in the instrument panel for several seconds while the system performs a self-check. The self-check may be audible.

If (ABS) does not go out or if it illuminates when driving, there is a defect in the ABS. The vehicle's brake system remains operational but without ABS assistance. Have your Holden Retailer check the system as soon as possible.

TRACTION CONTROL

Operation

Traction control helps prevent the driving wheels from spinning, irrespective of the road conditions and tyre grip. As soon as at least one driving wheel starts to spin, traction control reduces engine output and applies the brakes to the spinning wheel as necessary. This can improve the vehicle steering control and driving power particularly on snow and ice, as well as on wet or slippery roads.

Traction control helps you to keep control of the vehicle and reminds you to match your speed to the road conditions.

Note: Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style.

Indicator light

The light on the instrument panel illuminates for a few seconds when the ignition is switched on. If does not illuminate or if it illuminates during driving, a fault is indicated in the system and traction control will not be operational. Have your Holden Retailer check the system.

The light on the instrument panel flashes when the traction control system is operating, indicating that the vehicle is in a critical situation. When this occurs, engine output may be reduced (the sound of the engine may change) and the vehicle may be braked automatically to a small degree.

CHAPTER 5

Fuel

Page

5-2 Fuel

5-3 Petrol

5-5 Emission control

5-6 Reducing fuel consumption

FUEL

EXHAUST WARNING – CARBON MONOXIDE POISONING

- **Exhaust gases can produce carbon monoxide; a dangerous gas, which can cause unconsciousness and even death to both humans and animals.**
- **You could inhale the gases if the exhaust system on your vehicle is faulty.**
- **To protect against exhaust gases entering the vehicle, the exhaust system and the body should be inspected:**
  - **each time the vehicle is serviced,**
  - **whenever a change is noticed in the sound of the exhaust system,**
  - **whenever the exhaust system, underbody or rear of the vehicle is damaged.**
- **Take the vehicle to your Holden Retailer if you think your vehicle needs inspecting.**
- **Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running.**
- **Do not run the engine in an enclosed area (such as the garage) any longer than is needed to move the vehicle.**
- **Driving with the tailgate / rear doors open is not recommended. If you must travel with tailgate / rear doors open, close all of the windows, ensure that the heater controls are set to outside air (rather than recirculated) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h.**

LPG conversion

These vehicles have not been designed by Holden to be converted to LPG and Holden does not provide LPG conversion kits for these vehicles. Please refer to the warranty section in Chapter 9. Your New Vehicle Warranty may be invalidated to the extent that any LPG alterations affect the specifications of your vehicle.

WARNING – USE OF FUEL CONTAINING ETHANOL

When purchasing such fuel, we recommend that your vehicle be operated on fuel containing no more than 10% ethanol. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties.

Under no circumstances should you use fuel containing more than 10% ethanol. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation. These adverse effects could result in permanent damage to your vehicle and personal injury. It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.

The use of fuel containing more than 10% ethanol may also affect your New Vehicle Warranty to the extent that Holden considers that the fuel affects the specifications and quality of your vehicle.

PETROL

First few drives

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate producing smoke-like emissions which should not be inhaled. Allow the wax and oil to evaporate while the vehicle is in the open air.

WARNING:

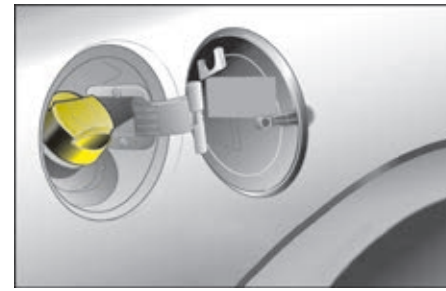
- **Petrol should be regarded as extremely flammable and highly explosive.**
- **Always turn off the engine and any mobile phones when refuelling.**
- **Do not smoke or allow open flames or sparks near the vehicle when refuelling.**
- **If petrol fumes are smelt while driving, the cause should be found and corrected without delay by a Holden Retailer.**

The petrol filler is located on the driver's side of the vehicle.

The petrol flap is unlocked when the doors are unlocked and locked when the doors are locked. Remove the filler cap by turning it anticlockwise.

After refilling, securely tighten the cap clockwise and close the flap.

Refer to Chapter 8 for the capacity of the fuel tank.



Petrol requirements RON (Research Octane Number)

Use unleaded petrol of at least 91 RON. Premium unleaded petrol (95 RON) can be used and will provide slight improvement in engine power and torque.

Petrol overflow

Over filling of the petrol tank can affect the evaporative emission control system and can also result in a smell of petrol inside the vehicle. Do not add petrol after the petrol filler first clicks off (or petrol blows back) as this allows room for the petrol to expand inside the tank.

Trickle fill the petrol tank only when the vehicle is to be driven for more than 50 km immediately after the tank is filled. However, this is not recommended on hot days (over 30°C).

Immediately wipe off any overflowing petrol from the vehicle, close the fuel opening and spray or splash with water.

PETROL cont.

Petrol filler nozzle restrictor

To help the atmosphere, your vehicle has been designed to operate on unleaded petrol. A petrol nozzle restrictor is fitted to ensure that only unleaded petrol is used. This allows the thinner unleaded petrol nozzle to open the hinged filler flap, so that petrol can be added to the tank. The leaded petrol nozzle is wider and therefore cannot open the flap.

WARNING:

The use of any fuel other than unleaded fuel may cause serious damage to your vehicle and may void your New Vehicle Warranty. Use only clean fuel of good quality.

EMISSION CONTROL

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, contribute to photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

Owner responsibility

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine, engine control system or exhaust system of your vehicle must not be modified in any way. Any change to the manufacturer's design may increase the emissions or otherwise defeat the intent of the regulations.

WARNING:

Any person who removes, modifies or hinders any part of the emission control system fitted to a vehicle will be contravening Australian Design Rules, refer A.D.R. 28/01 (External Noise for Motor Vehicles) and A.D.R. 37/01 (Emission Control for Light Vehicles). It is also illegal to drive a vehicle modified in this way.

Maintenance requirements

To ensure continuing compliance with the regulations you must maintain your vehicle's emission control system as per your vehicle's service manual, at the frequency shown in the maintenance schedule in Chapter 12.

It is recommended that the necessary servicing be performed by an authorised Holden Retailer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the Maintenance schedule in Chapter 12. This will ensure items such as the spark plugs, air cleaner, etc. are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Inadequate tyre pressure causes higher fuel consumption and increased tyre wear. Keep the tyres at the recommended pressures.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

Warm ups and idling

Avoid long engine warm ups through idling. They are unnecessary and waste fuel. An engine reaches its efficient operating temperature most effectively when driving.

You should also avoid long engine idling. If you have to wait for more than a couple of minutes it is worthwhile to switch off the engine and conserve fuel. Three minutes of idling corresponds to approximately 1 km of driving.

Accelerating, driving and braking

Accelerate gently and avoid rapid starts. Sudden bursts of speed, full throttle acceleration and hard braking are certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

'Riding the brake' by resting your foot on the brake pedal when you do not intend to brake can cause overheated brakes. This can wear out the brake pads faster, damage the brakes and waste fuel.

Air conditioning (if fitted)

Turn off the air conditioning when not required, to reduce fuel consumption.

Roof racks (if fitted)

Roof racks can increase fuel consumption by 1 litre per 100 km or more, due to the increased air resistance. They should therefore be removed when not in use.

Loading

Unnecessary weight increases fuel consumption, especially when accelerating. In city traffic, a load of 100 kg can increase fuel consumption by 0.5 litre per 100 km.

CHAPTER 6

Emergencies

Page

6-2 Accidents
- Being involved
- Being a witness
- Medical assistance

6-4 Flat tyre

6-9 Towing another vehicle

6-10 Towing your vehicle

6-12 Engine overheating

6-14 Flat battery
- Jump starting

6-16 Flat battery – automatic transmission

6-17 Airbags

6-20 Bulb replacement

6-27 Fuses

Your new vehicle is covered for 3 years by 24 hour Roadside Assistance. Refer to Chapter 9.

ACCIDENTS

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to-mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs. In all cases, ensure safety for the rescuers, victims and bystanders. The following notes may help.

Part 1. Accident – being involved

If you are involved in an accident you are advised to do as follows:

- Stop immediately and remember to turn off the engine and apply the park brake.
- Remember that time is vital. Remain calm and alert. Think quickly and clearly.
- Give all possible assistance to all injured persons (refer to Part 3. Medical assistance).
- Send for police and ambulance if anyone has been injured. Give information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.
- Warn all other traffic approaching the scene. Turn off all ignition switches. Stop any smoking and mobile phone use near spilt petrol. In darkness, try to light up the area to warn others – use hazard lights, a torch, headlights etc. Do not use flammable items.
- Clear the road of accident debris.
- Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.
- If damage to property only has occurred, report the facts to the owner of the damaged property, to his or her representative, to any police present at the scene or to the nearest Police Station.
- Try to note all important facts because such details may be important if needed later.

Part 2. Accident – being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident:

- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- Do not stop at the scene of an accident just to be a spectator.
- Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons (refer to Part 3. Medical assistance).

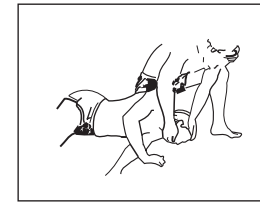
ACCIDENTS

Part 3. Medical assistance

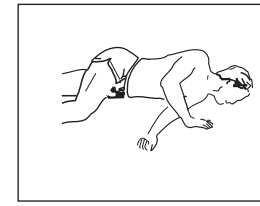
This information is basic first aid information which is intended as a guide only and may not be applicable in all situations. You should always defer to a trained medical officer or other person with first aid knowledge. Protective equipment, such as rubber gloves are recommended.

Keep calm and think clearly. Your experience may not be much but do your best.

- Look after the unconscious person first. Check airway, breathing and circulation. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.
- You must be very careful when moving an injured person. It is best not to move at all, except if in danger, as serious and permanent damage can be done to an injured neck or back if not supported during movement. AVOID BENDING OR TWISTING A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.
- Unconscious people can choke. To help avoid this:
  - carefully turn the person to one side
  - tilt their head back slightly
  - wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.



- Provided it is not dangerous to do so due to injuries, an unconscious person will do best in the following position:
  - lay the person on one side
  - bend the uppermost knee until the thigh is at a right angle to the body
  - bend the uppermost shoulder and elbow so that the hand lies near the face
  - gently pull the underneath arm so that it rests straight on the ground free of any body weight.



- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. It is best not to give any fluids and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending or twisting the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

FLAT TYRE

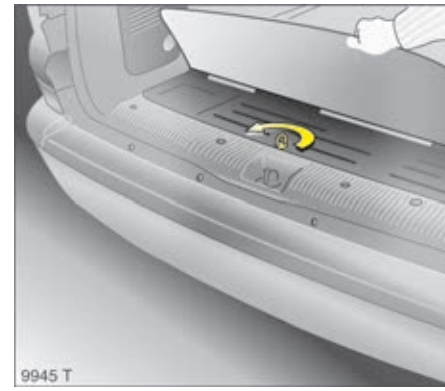
WARNING:

- **Use the jack only for lifting the vehicle when changing wheels.**
- **Never get beneath the vehicle when it is only supported by the jack.**
- **Do not start or run the engine while the vehicle is supported only by the jack.**
- **All passengers should be out of the vehicle when it is being jacked.**
- **Use the jack only at the designated vehicle lifting points. Use in other locations could damage the vehicle.**
- **The vehicle should be jacked only on hard, level surfaces.**

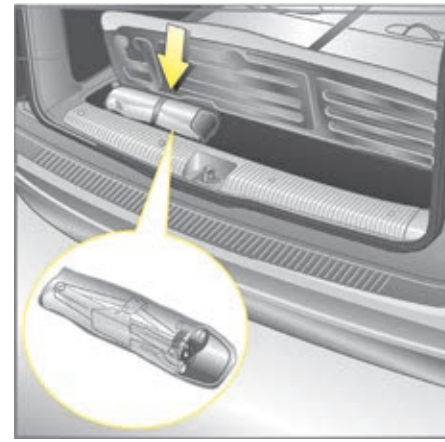
1. Park on a level surface ensuring that the wheels are pointing straight ahead and the park brake is set firmly.
2. Select reverse or first gear (manual transmission) or **P** (automatic transmission).
3. Remove the ignition key.
4. Remove the jack and tools.

   The jack and tools are located in the luggage compartment floor area, under the floor cover.

   To access the jack and tools, lift the carpet at the rear of the compartment, rotate the metal ring anticlockwise and lift the cover.



The jack and tools are secured by a rubber strap.

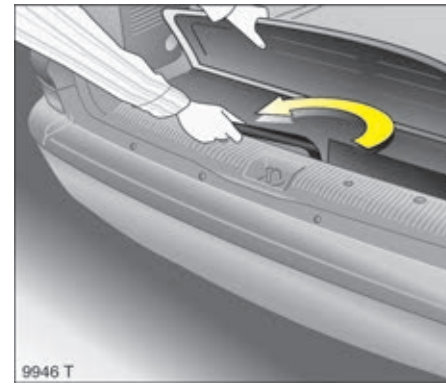


FLAT TYRE cont.

4. Remove the spare wheel.

   The spare wheel is located underneath the rear of the vehicle.

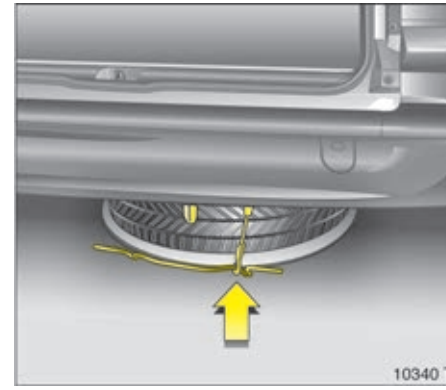
   Using the wheel bolt wrench in the tool kit, fully undo the bolt in the luggage compartment floor (turn the bolt anticlockwise).



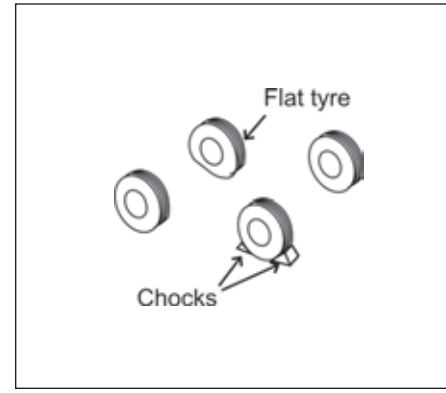
   Lift the spare wheel holder, unhook the catch and lower the wheel.

   Detach the safety cable.

   Lower the spare wheel holder fully and take out the spare wheel.



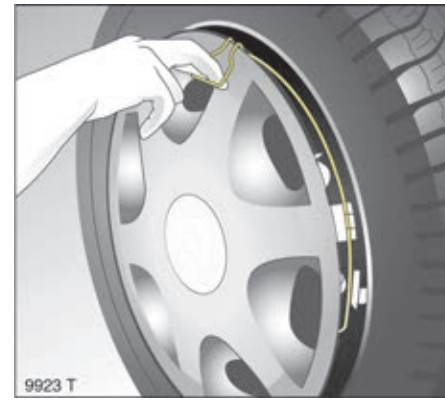
5. Chock the wheel diagonally opposite the flat tyre by placing wedge blocks, any available blocks of wood or rocks behind and in front of it.



FLAT TYRE cont.

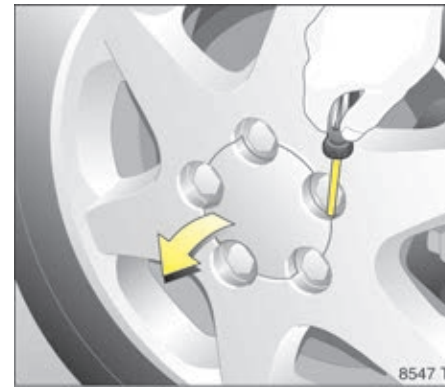
6. **Steel wheel (if fitted)**

   Remove the wheel trim using the tool in the vehicle tool kit.

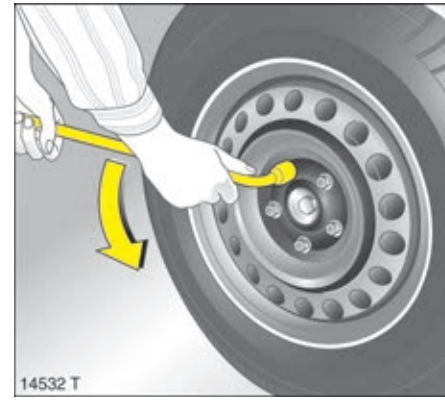


Alloy wheel (if fitted)

Remove the centre cap using a screwdriver in the recess at the side of the cap. Remove the individual wheel bolt caps.

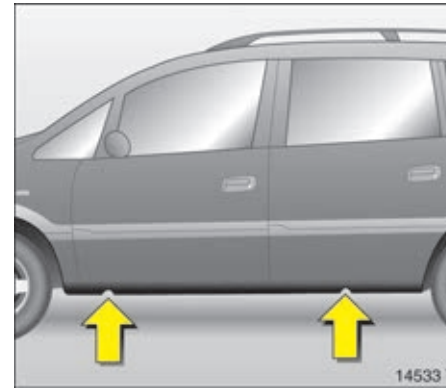


7. Loosen (but do not remove) the wheel bolts with wheel bolt wrench.



FLAT TYRE cont.

8. Depressions on the lower edge of the vehicle indicate the points where the jack is to be attached to the underbody.



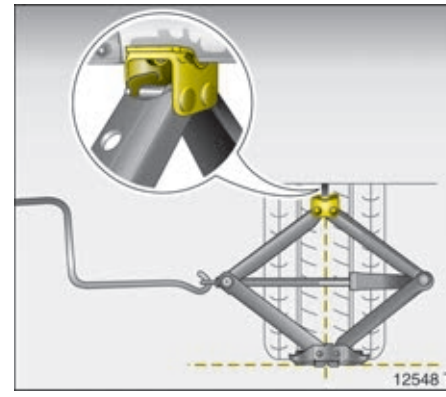
WARNING:

Failure to position the jack as described above could result in serious personal injury or vehicle damage caused by the vehicle slipping off the jack.

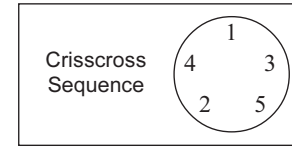
9. Adjust the jack to the required height and position the jack in the recess that is nearest the flat tyre.

   Ensure that the jack claw surrounds the vertical ridge and engages in the recess in the ridge and that the jack base is directly below the jacking point / claw.

10. Raise the vehicle by turning the crank handle, until the tyre is clear of the ground.
11. Remove the wheel bolts and place them together in a dry spot to avoid getting dirt in the threads.
12. Remove the wheel from the vehicle and change it over with the spare wheel.



13. Install the wheel bolts and lightly tighten them with the wheel wrench, in a crisscross sequence, as illustrated.
14. Lower the vehicle completely and remove the jack.
15. Fully tighten the wheel bolts with the wheel wrench in a crisscross sequence.



FLAT TYRE cont.

16. **Steel wheels**
    - Clean the area around the wheel trim retaining clips.
    - Locate the valve symbol on the rear of the cover and ensure that it points towards the valve.
    - Install the wheel trim.

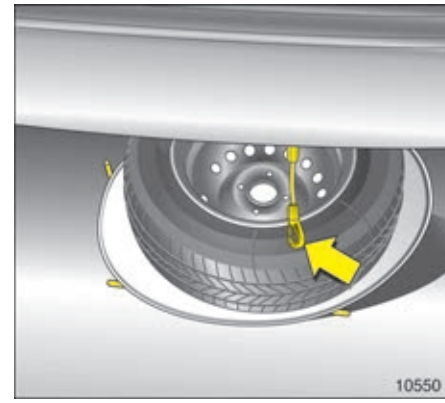
    Alloy wheels
    - Insert the pin on the back of the centre cap into the corresponding hole in the wheel.
    - Install the centre cap.

17. Stow the replaced wheel in the spare wheel receptacle.

    Place the wheel onto the spare wheel holder:
    - steel wheel with outer side up
    - alloy wheel with outer side down.

    Lift the spare wheel holder, attach the safety cable, then continue to lift until the spare wheel holder engages with the catch.

    Use the wheel wrench to turn the bolt in the luggage compartment floor (clockwise) and fully raise the spare wheel holder.



18. Place the tools and jack back into the bag and store them in the luggage compartment using the rubber strap.

    When installing the luggage compartment floor cover, ensure that the lugs on the front rim are inserted into their locating recesses. Rotate the metal ring clockwise to lock the cover in place.

19. Insert the lugs on the front rim of the compartment floor cover into their recesses, install the cover and lock it into place.

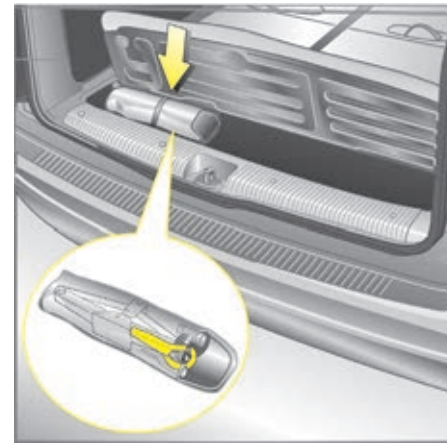
20. Have the flat tyre repaired as soon as possible.

WARNING:

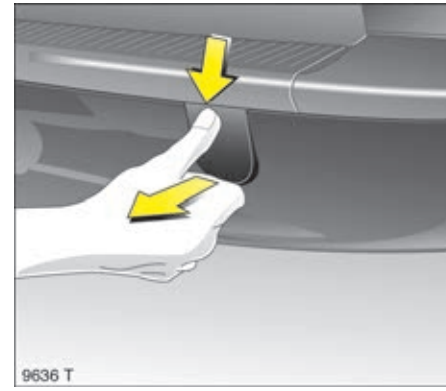
- **As soon as possible after changing a wheel, have the wheel bolts tightened with a torque wrench to 110 – 140 Nm (Newton metres) and have the new wheel balanced on the vehicle.**
- **Wheel bolts should be tightened evenly and to the correct torque, in a crisscross pattern. Wheel bolts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving!**

TOWING ANOTHER VEHICLE

1. The towing eye is located in the bag containing the jack and tools. Refer to Flat Tyre, in this chapter.

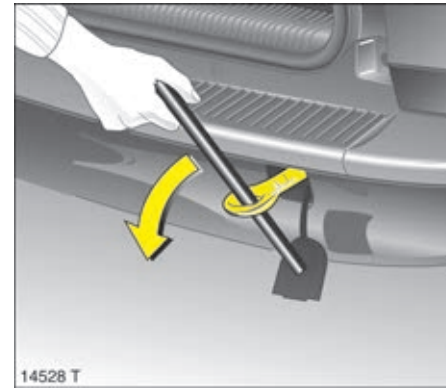


2. At the rear of the vehicle on the right hand side, open the cover concealing the hole for the towing eye by disengaging the cover at the bottom and pulling downwards.



3. Screw the towing eye in anticlockwise as far as it will go, then use the wheel bolt wrench to tighten it until it is fully horizontal.
4. Attach a tow rope to the eye. Do not attach the tow rope to the rear axle.
5. Drive off slowly and avoid jerky movements.

Note: This tow point is not available if the vehicle is fitted with a tow bar. If a tow bar is fitted, use a suitable shackle through the hole in the tow bar tongue and attach the tow rope to the shackle.

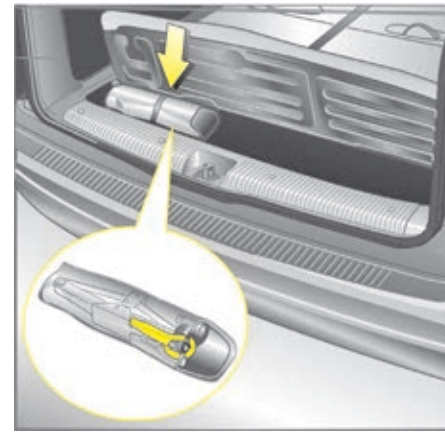


TOWING YOUR VEHICLE

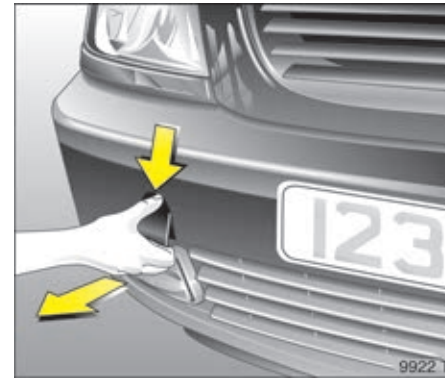
Proper lifting or towing equipment is necessary to prevent damage during any towing operation of the vehicle. State and local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

1. Access the towing eye.

   The towing eye is located in the bag containing the jack and tools. Refer to Flat Tyre in this chapter.



2. At the front of the vehicle on the driver's side, open the cover concealing the hole for the towing eye. To open the cover, disengage it at the bottom and pull the top downwards.



3. Screw the towing eye in anticlockwise as far as it will go, then use the wheel bolt wrench to tighten it until it is fully horizontal.

TOWING YOUR VEHICLE cont.

4. Attach a tow rope to the eye. Do not attach a tow rope to the bumper bars, brackets or any other part of the vehicle.
5. Place the transmission in neutral and release the park brake. To release the automatic transmission shift lever (if locked in P), refer to Flat Battery – Automatic Transmission in this chapter.
6. Switch the ignition on. This releases the steering lock and allows the correct operation of windscreen wipers, horn and turn signals.
7. To prevent the entry of exhaust fumes from the towing vehicle into your vehicle, close the windows and select recirculate with the ventilation controls.

For safety and to prevent damage to the vehicle, it is advisable to avoid jerky movements and to drive slowly during towing operations.

Note: Power assist for brakes and power steering is not available when the engine is not running and therefore, significantly more effort is required to brake and to steer.

WARNING:

- **Vehicles fitted with an automatic transmission should only be towed facing forwards and must not be towed for more than 100 km or at over 80 km/h.**
- **If the transmission is defective or if the above speed or distance is to be exceeded, the front of the vehicle must be raised.**
- **Only the driver should be in a towed vehicle.**

ENGINE OVERHEATING

WARNING:

Immediate action is required if the engine overheats. For physical reasons, the engine temperature gauge shows the correct temperature only if there is sufficient coolant in the cooling system. Should irregularities in the coolant temperature occur, for example if the gauge enters the red zone, check the coolant level immediately. Overheating can also be indicated by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.

Continued driving EVEN FOR A SHORT TIME could cause a fire, personal injury or vehicle damage.

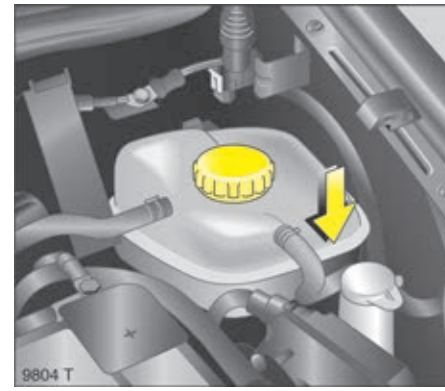
Pull out of the traffic as soon as possible and stop the vehicle. Leave the engine idling and the park brake applied while you get out and check that the cooling fan is working.

WARNING:

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Scalding fluid and steam can blow out under pressure causing serious burns. Wait until no steam or coolant can be seen or heard escaping before opening the bonnet.

1. If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes, stop the engine, remove the ignition key and proceed as follows:
2. Look for leaks in or around the radiator hoses and connections, the heater hoses and connections, the radiator and the water pump.
3. Take care when checking all of these areas as they will probably still be hot.
4. If you find a major leak or other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.
5. If you do not find anything wrong, check the engine coolant level in the surge tank.

   When the engine is hot the level should be above the KALT / COLD mark.
6. If the level is below the KALT / COLD mark, fluid should be added. Add the coolant when the engine is idling, to slightly over the mark.



WARNING:

Do not remove the cooling system cap if the engine and radiator are still hot.

ENGINE OVERHEATING cont.

7. When the engine has cooled sufficiently, remove the surge tank cap as follows:
   - Cover the surge tank cap with a thick cloth.
   - Slowly turn the cap anticlockwise, gradually releasing any residual pressure.
   - Remove the cap.
8. With the engine idling, fill the surge tank with clean water to the KALT / COLD mark.
9. Replace the cap and leave the engine idling for a few minutes.

If the temperature gauge no longer signals an overheat condition, you can resume driving at a reduced speed. Return to normal driving if the temperature gauge does not show an overheat condition again after 10 minutes.

If overheating occurs again, have the vehicle attended to by a qualified mechanic as soon as possible.

Note: With this type of sealed and pressurised cooling system, there should be very little loss of coolant. If the coolant level in the surge tank is low, a leak is indicated. Have your Holden Retailer locate and repair the leak.

The engine may temporarily operate at high temperatures during more demanding operating conditions, especially on very hot days. These conditions include:

- climbing a long hill
- immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

Avoid operating your vehicle for prolonged periods in any of the above circumstances if the temperature gauge indicates high engine coolant temperature.

Refer to Chapter 7 for maintenance instructions to help protect your cooling system from overheating.

FLAT BATTERY

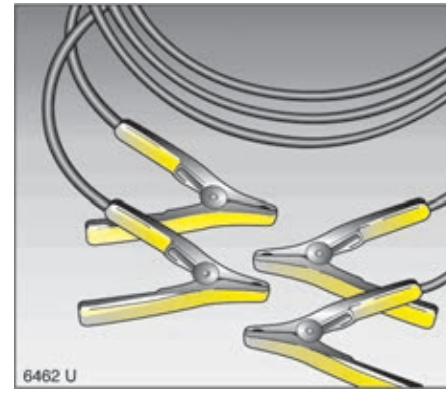
WARNING:

DO NOT attempt to push start or tow start this vehicle as it is fitted with a catalytic converter. If uncombusted fuel reaches the catalytic converter and ignites, the converter could overheat or be destroyed by backfire.

If your vehicle will not start due to a discharged battery, it may start using the energy from a battery in another vehicle; a procedure called jump starting.

Read the following procedure in full before attempting to jump start your vehicle.

If after reading the following procedure you are still unsure about jump starting, we strongly recommend (for your safety and that of your vehicle) that you leave the starting to a competent mechanic.



Jump starting

WARNING:

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

- **Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.**
- **Do not smoke near a battery.**
- **Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.**
- **Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.**
- **Be sure any batteries that have filler caps are properly filled with fluid.**
- **Remove rings, metal watch bands and other metal jewellery before working around the battery.**
- **Carefully follow each step in the jump starting procedures.**
- **Never use a quick charger to start your engine.**
- **Do not lean over the battery during jump starting.**

FLAT BATTERY cont.

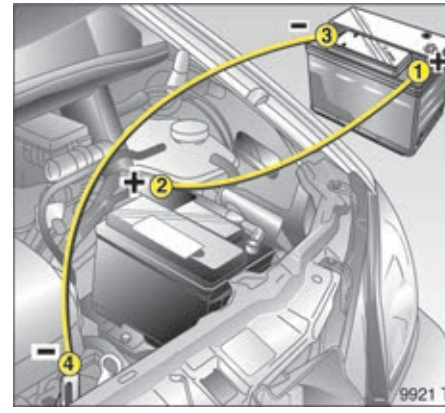
Jump starting precautions

- The battery of your vehicle has a negative earth and a 12 volt rating. The battery in the assisting vehicle must be the same voltage and polarity (negative earth).
- The capacity of the charged battery must not be substantially lower than that of the discharged battery. Check the specifications of both batteries to ensure that they comply. Serious injury or damage may result if the wrong type of battery is used.
- Position the two vehicles so that they are not touching, apply the park brakes and for vehicles with an automatic transmission, select P (park), or manual transmission, select N (neutral).
- Turn off the ignition and all lights and accessories in both vehicles, except for those needed for the work area (i.e. hazard lights).
- Access the assisting vehicle battery.

Note: Use spike-protection jumper leads to avoid damaging electrical components.

Jump starting

When making all connections, take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.



1. Attach one end of the first jumper cable to the positive terminal of the assisting battery (+ or P on the battery case or battery post).
2. Connect the other end of the same cable to the positive terminal of the flat battery.
3. Attach one end of the second jumper cable to the negative terminal of the assisting battery (– or N on the battery case or battery post).
4. Connect the other end of the second cable to a solid, stationary, metallic point on the engine with the flat battery (i.e. the engine block). DO NOT connect directly to the negative post of the flat battery. The connection should be as far away from the flat battery as possible.
5. Start the engine in the assisting vehicle and run the engine at a moderate speed.
6. Start the engine in the vehicle with the flat battery.

   Note: Attempts to start the engine with the flat battery should be made at intervals of 1 minute and should not last longer than 15 seconds.
7. After starting, allow both engines to idle for approximately 3 minutes with the cables connected.
8. Leave the engines running as you remove the jumper cables.
9. Remove the cables in the reverse order of the connecting procedure. While removing each cable clamp, take care that it does not touch any moving parts or any other metal, especially while the other end remains attached.

FLAT BATTERY – AUTOMATIC TRANSMISSION

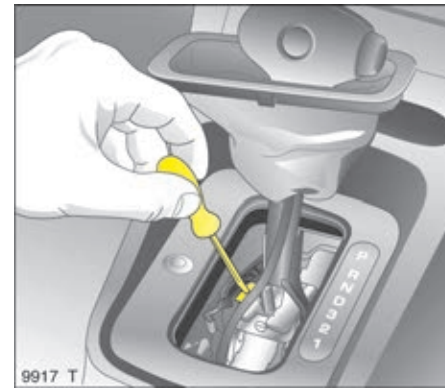
For safety, the transmission has an electric P (Park) position lock so that the key must be in the ignition, and the ignition switched on, before the shift lever can be moved out of P. If the vehicle battery is flat, the shift lever cannot be moved.

If the lever needs to be moved, for instance for towing, move the shift lever as follows:

1. Apply the park brake.
2. Disengage the cover from the console below the park brake lever.
3. Disengage the shift lever trim from console and fold it upwards.

4. With a screwdriver, push the catch forward as illustrated and move the shift lever out of P.
5. Install the shift lever trim on the centre console.
6. Install the cover on the console.

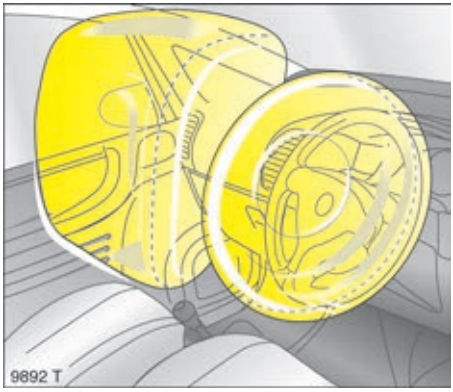
Note: If the shift lever is moved back to P, the lever will again lock in this position.



AIRBAGS

Location

Airbags are fitted for the driver and front passenger, identified by the word AIRBAG on the steering wheel and above the glovebox.



Warning light

The light on the instrument panel illuminates for a few seconds when the ignition is switched on. This indicates that the airbags are operational. If the light does not illuminate when the ignition is switched on or it comes on when driving, have your Holden Retailer check the system as soon as possible. The airbag system may not function correctly, especially in an accident.

Operation

If your vehicle is involved in a severe front end collision, the front airbags will inflate assisting the seat belts to restrain forward body movement.

When triggered, the airbags inflate in milliseconds and form a safety cushion for the driver and front passenger. Forward movement and movement in the respective door areas is cushioned substantially reducing the risk of injury.

Impairment of view will not occur as the airbags quickly deflate; the whole process taking only a moment.

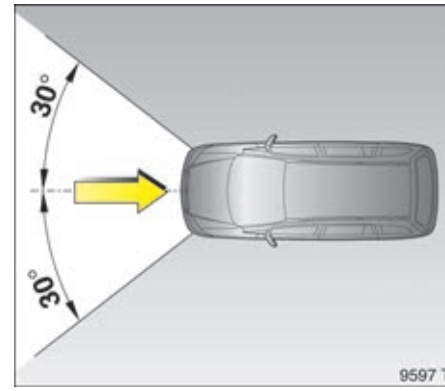
An operating noise may be heard and a small amount of smoke-like gas will be released. The gas is harmless and does not indicate malfunction or fire.

Note:

- The airbags assist, but do not replace the seat belts.
- The front airbags are not designed to inflate if the vehicle is hit from the rear or side or if the vehicle overturns.
- Seat belts should be worn by all occupants (by law) whenever the vehicle is moving.
- Airbags inflate with great force. If you are too close to an inflating airbag it could seriously injure you. Seat belts help keep you in position in a crash.
- The airbags inflate with extreme rapidity. It is, therefore, important that seats are correctly adjusted. Adjust the driver's seat to suit the driver's height; the driver should be sitting upright with slightly bent arms when holding the upper spokes area of the steering wheel. The passenger seat should be as far back as possible, with the back rest upright.

AIRBAGS cont.

Impacts – airbag inflation



The front airbags will inflate if the vehicle is struck with a severe impact within the non-shaded section illustrated.

The airbags will not inflate if the vehicle is struck from the side, rear or in some rollovers so always wear a seat belt.

After use, the whole airbag system must be replaced. It is recommended that this work is done by a Holden Retailer.

The system should also be inspected by a Holden Retailer if the steering wheel or dashboard area is scratched, cracked or damaged.

Remember to keep the horn pad area clear, as failure to do this may hinder airbag operation.

The dashboard area, which houses a passenger's airbag, must be kept clear with nothing around this area or hanging from the sun visor.

The electronics controlling the airbag system and belt pretensioners are located in the centre console. To prevent malfunctions, do not place magnetic objects in the immediate vicinity of the console.

Extensive design and testing has gone into the airbag system. It should, however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental deployment. Any work to the electrical system, steering column, dashboard area, steering wheel or airbag system should be carried out by an authorised Holden Retailer.

WARNING:

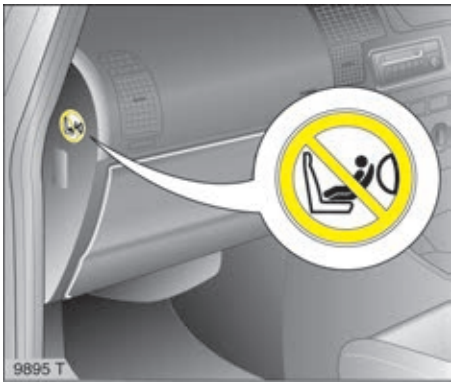
- **Driver's airbag:**
  The horn pad must not be covered with adhesive or any other material. The driver should adjust the seat as far back as possible and sit back as far as possible while still maintaining control of the vehicle.
- **Front passenger's airbag:**
  The dashboard area must be kept clear. Do not place any objects over the dashboard or between an airbag and yourself. Nothing should hang from the sun visor or mirror and a passenger must not rest their feet on the dashboard.

AIRBAGS cont.

Airbag and child restraints

WARNING – EXTREME HAZARD:

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it. The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.



Refer to Chapter 3 for further information about fitting a child restraint.

Do not touch any airbag system internal components or wires. The wires can be identified by yellow taping or yellow tubing and the connectors are also yellow.

Scrapping a vehicle that has an uninflated airbag or airbags can be hazardous. Ask your Holden Retailer for assistance.

Bull bar fitment

Fitting a bull bar (or making other modifications to the front of the vehicle) may change the impact speed which would normally cause the airbag to inflate, reducing its effectiveness.

Bull bars should not be fitted to vehicles operating in suburban areas as they increase the risk of injury to a pedestrian in the event of a collision. Bull bars are recommended only for country and outback areas where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where roadside signs indicate wildlife is abundant.

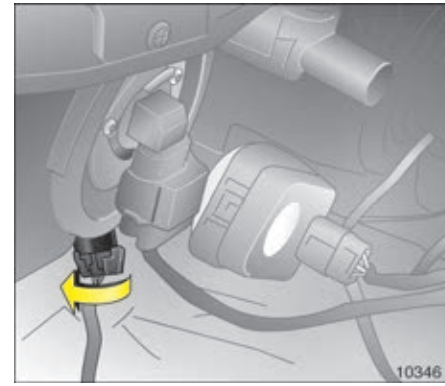
BULB REPLACEMENT

WARNING:

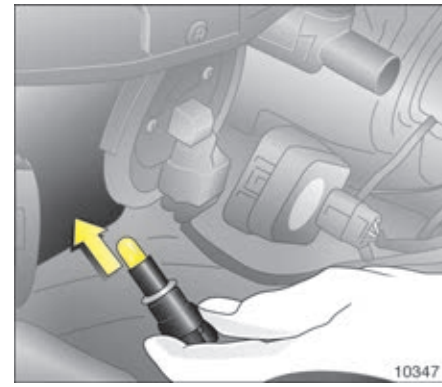
- **Always turn off the related switch.**
- **Do not touch new bulbs or reflectors with bare hands. Greasy fingers cause stains which evaporate, eventually resulting in a dull reflector. Grease spots on halogen bulbs will, within a short time, lead to bulb failure. Inadvertently stained bulbs may be cleaned with methylated spirits.**
- **It is important to fit only bulbs of the specified wattage.**
- **Detailed procedures for headlight aiming are provided in the relevant service manual for your vehicle. However, because headlight aiming is a safety item, it is recommended that you have it carried out by your Holden Retailer.**
- **On vehicles fitted with headlight range adjustment, any change to the adjustment must be carried out with the switch in position 0 (off).**

Front parking lights

1. Open the bonnet and engage the support.
2. Rotate the bulb holder anticlockwise and disengage it.



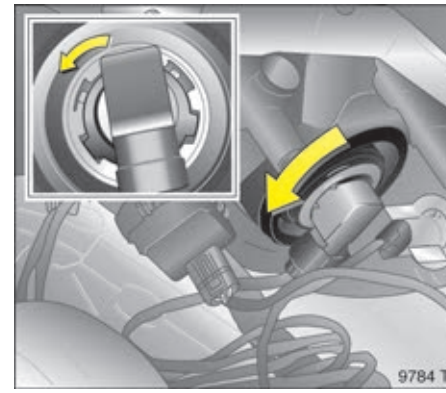
3. Remove the bulb from the holder.
4. Insert the new bulb.
5. Insert the holder into the reflector and engage it by turning it clockwise.



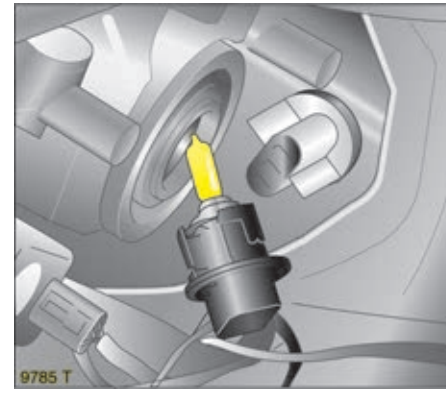
BULB REPLACEMENT cont.

Headlights – low beam

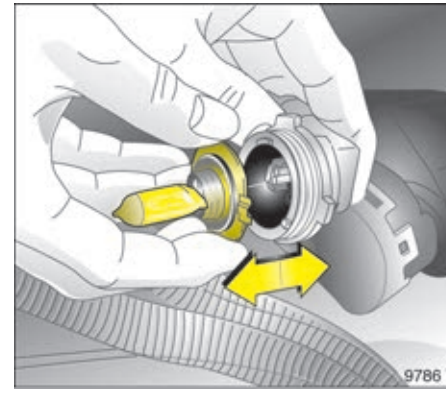
1. Open the bonnet and engage the support.
2. Grip the bulb holder at the plug connector and rotate it anticlockwise.



3. Remove the bulb holder from the reflector.



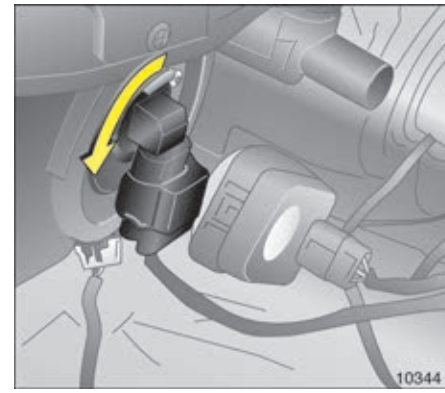
4. Detach the bulb from the bulb holder.
5. Insert the new bulb into the bulb holder, without touching the glass.
6. Insert the new bulb so that the three lugs on the bulb holder engage in the recesses in the reflector.
7. Rotate the bulb holder clockwise as far as it will go.



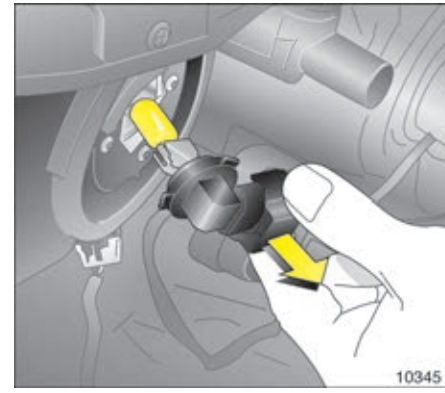
BULB REPLACEMENT cont.

Headlights – high beam

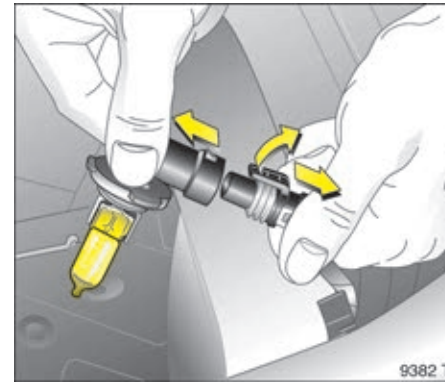
1. Open the bonnet and engage the support.
2. Grip the bulb holder on the plug connector and rotate it anticlockwise.



3. Remove the bulb holder from the reflector.



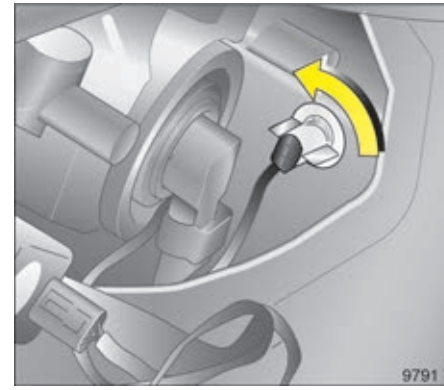
4. Raise the lug and detach the connector from the bulb holder.
5. Insert the new bulb into the bulb holder without touching the glass.
6. Insert the new bulb so that the three lugs on the bulb holder engage in the recesses in the reflector.
7. Rotate the bulb holder clockwise as far as it will go.



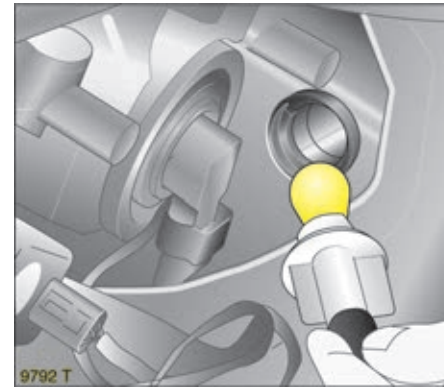
BULB REPLACEMENT cont.

Front turn signals

1. Open the bonnet and engage the support.
2. Rotate the bulb holder anticlockwise and disengage it.



3. Press the bulb into the holder gently, turn it anticlockwise and remove it.
4. Insert the new bulb and engage the holder into the reflector by turning the holder clockwise.



Holden Retailer bulb replacement

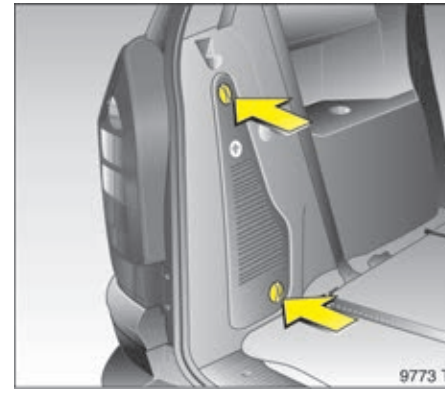
Bulb replacement for the following lights should be carried out by your Holden Retailer:

- Instrument illumination.
- Front fog lights (if fitted)
- Rear reading lights (if fitted)
- Side turn signals
- Centre mounted stop light.

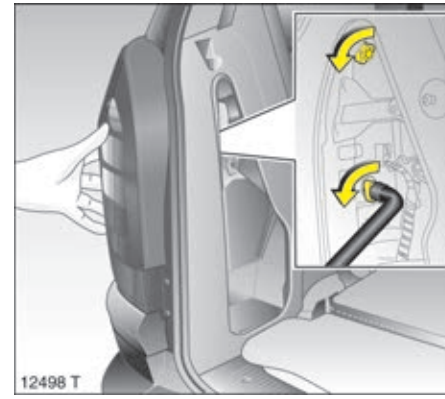
BULB REPLACEMENT cont.

Tail, brake, rear turn signal, reverse lights and rear fog lights

1. Disengage and remove the cover as illustrated.

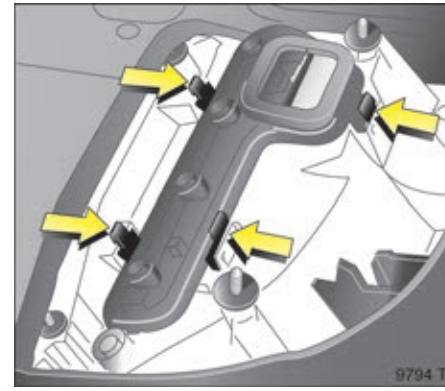


2. Detach the plug connector from the bulb holder.
3. Grip the lens from the outside as you unscrew the two lens retaining nuts. (The wheel bolt wrench can be used to undo the nuts if necessary.)
4. Detach the lens from the vehicle body.



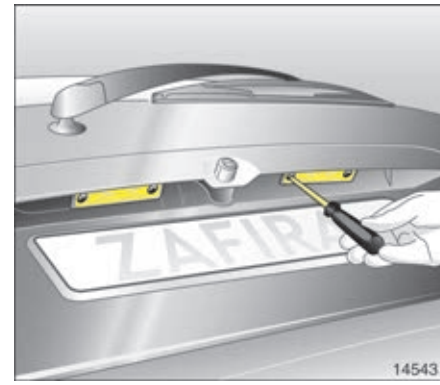
5. Press the retaining lugs together as illustrated and remove the bulb holder.

   Bulb sequence from top to bottom:
   - Tail / brake
   - Turn signal
   - Reverse
   - Fog.
6. Remove the defective bulb from the holder.
7. Insert the new bulb.
8. Engage the bulb holder in the lens.
9. Insert lens into vehicle body and install the nuts.
10. Engage the plug connector.
11. Install the cover.



BULB REPLACEMENT cont.

Number plate light



1. Open the luggage compartment.
2. Remove both of the screws in the defective light on the underside of the tailgate handle.
3. Remove the bulb holder.
4. Press the bulb slightly towards the spring clip and remove it.
5. Insert the new bulb.
6. Install the bulb holder and the screws.

Front courtesy light and reading lights (if fitted)

Before removal, close the doors so that the light is not live.

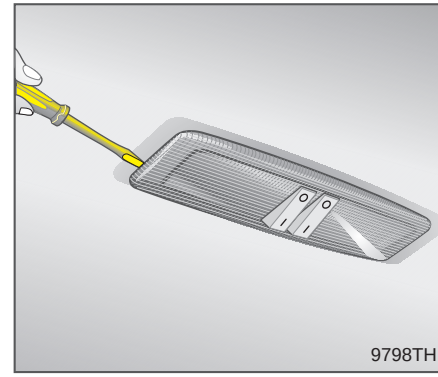
1. Gently lever the lens out of the housing as illustrated.
2. Remove the bulb from the socket.
3. Insert the new bulb.
4. Install the lens.

BULB REPLACEMENT cont.

Rear courtesy light (if fitted), glovebox light and load area light

Before removal, close the doors or make sure that the contact switch is kept pressed so that the light is not live.

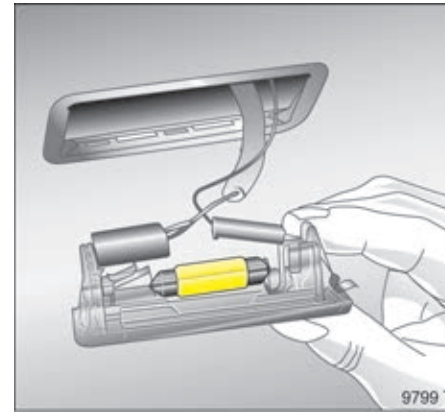
1. Lightly prise the light out of the recess using a screwdriver.



2. Press the bulb slightly towards the spring clip and remove it.

3. Insert the new bulb.

4. Install the light.



FUSES

WARNING:

- **Electronic ignition systems operate at a very high voltage. Do not touch the ignition system.**
- **When replacing a fuse, be sure to use a fuse of the specified amperage. Never install a wire or similar device to replace a fuse as this could damage electrical components and may cause a fire hazard to your vehicle.**

A defective fuse can be recognised by its melted wire. A new fuse should only be installed after the cause of the trouble has been located and eliminated.

Only fuses of the specified rating should be installed. The rating is given on the fuses.

COLOUR	RATING
Tan	5 amps
Brown	7.5 amps
Red	10 amps
Blue	15 amps
Yellow	20 amps
Green	30 amps
Orange	40 amps

Fuse box locations

There are two fuse box locations:

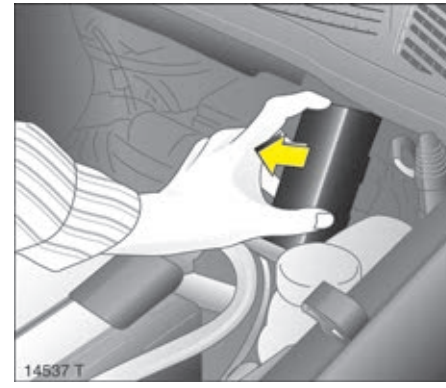
- in the engine compartment
- inside the vehicle, next to the steering column.

Engine bay fuse box

The fuses in the engine bay fuse box protect the primary (main) circuits.

To access the fuses, disengage the cover as illustrated and lift it upwards.

If there is a fault in one of these fuses, major parts of the electrical system will fail. Have a Holden Retailer check and repair the fault.



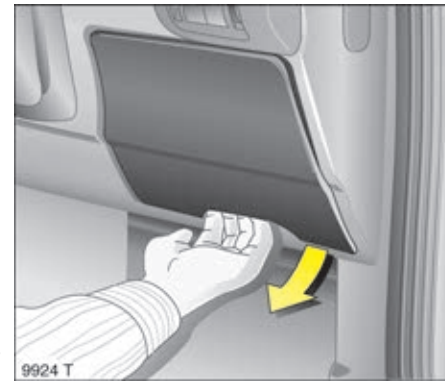
FUSES cont.

Internal fuse box

The fuses in the internal fuse box protect the secondary circuits. They are located behind a cover to the right of the steering wheel.

To replace a fuse, remove the fuse box cover and disengage the fuse box.

To disengage the fuse box, grip the handle below the fuses, pull the fuse box and swivel it outwards.



Spare fuses

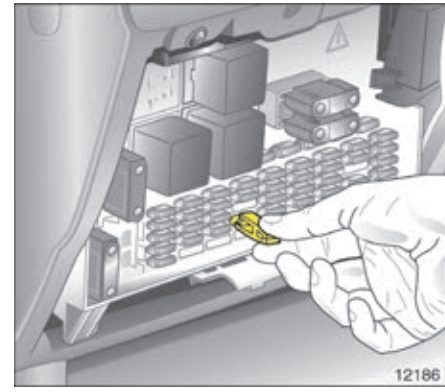
It is recommended that a complete set of spare fuses be carried in the vehicle.

Change a fuse

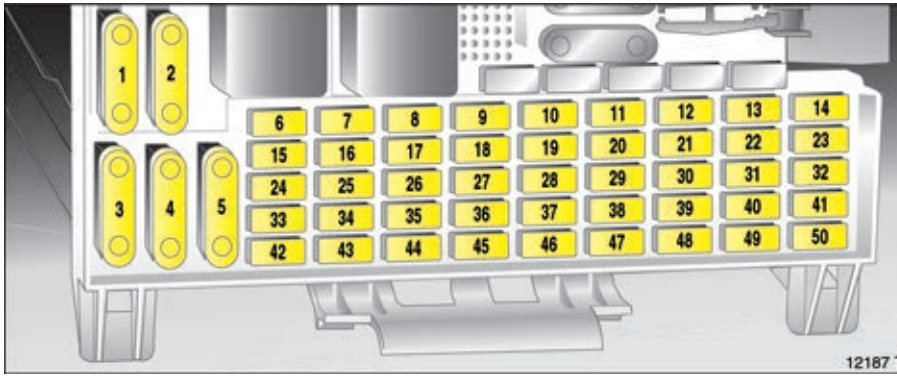
Before replacing a fuse, turn off the respective switch and remove the ignition key.

A special fuse-gripping tool is provided to help in replacing fuses. It is in the right-hand side of the fuse box.

Slot the fuse gripping tool onto the defective fuse and withdraw the fuse.



FUSES cont.



1	–	
2	Fans, A/C	30 A
3	Heated rear window	40 A
4	–	
5	–	
6	Low beam headlight (right), headlight range adjustment	10 A
7	Park and tail lights (right), number plate light	10 A
8	High beam headlight (right)	10 A
9	–	
10	Horn	15 A
11	Central locking	20 A
12	Fog lights	15 A
13	Information display	5 A
14	Windscreen wipers	30 A
15	Electric windows and mirrors	5 A
16	Rear fog lamps	10 A
17	Electric windows	30 A
18	Automatic transmission	5 A
19	CD changer	10 A
20	Electric windows	30 A
21	Park shift lock, radio central locking	5 A
22	Hazard lights, A/C, control indicators, information display	15 A
23	ABS, TC, power steering	10 A
24	Low beam headlight (left) headlight range adjustment	10 A
25	Park and tail lights (left), number plate lights	10 A
26	High beam headlight (left)	10 A
27	–	
28	Courtesy light	5 A
29	Hazard lights, interior lights, automatic transmission	10 A
30	–	
31	Rear window wiper	20 A
32	Headlights-on chime, immobilizer	10 A
33	Rear accessory socket	20 A
34	Information display, radio	20 A
35	Automatic transmission, engine cooling, A/C	10 A
36	Cigarette lighter	15 A
37	–	
38	Cruise control, brake lights information display	10 A
39	Auto transmission, A/C, engine cooling	5 A
40	Engine cooling, A/C	5 A
41	Heated exterior mirrors	10 A
42	Interior lighting	5 A
43	–	
44	–	
45	–	
46	Engine controller	15 A
47	–	
48	–	
49	–	
50	–	

CHAPTER 7

Weekly checks

Page

7-2 Miscellaneous checks

7-3 Engine oil level

7-4 Engine coolant level

7-5 Brake, transmission and steering fluid levels

7-6 Washer fluid level and battery

7-7 Tyres

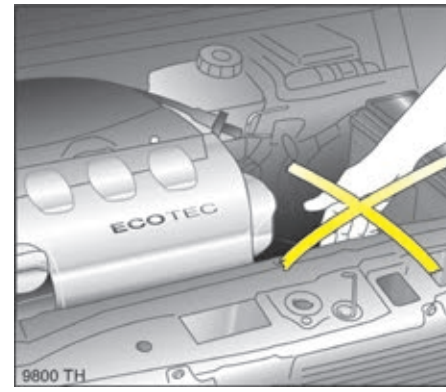
MISCELLANEOUS CHECKS

As well as having the vehicle serviced regularly (refer to Chapter 12), there are a few simple weekly checks that are recommended. These are outlined on the following pages.

The checks below should also be regularly performed to ensure proper safety and dependability of your vehicle.

WARNING:

- **If the engine temperature is high, the cooling fan may remain on for several minutes after turning off the ignition.**
- **The engine cooling fan can start working unexpectedly, even when the engine is not running and the ignition is off.**
- **Electronic ignition systems have a high ignition power. Do not touch the ignition system.**



Check as follows:

- All exterior lights are working and their interior indicators illuminate accordingly.
- Mirrors and glass are clean and not scratched.
- The automatic transmission shift lever indicator correctly lines up with the gear selected.
- The aim of water on the windscreen and tailgate and the condition of the wipers is satisfactory.
- The demister operates.
- Seat belts are in a safe condition and operate correctly. (Give each belt a sharp tug to make sure that it locks.)
- Seat belt buckles are clean and operating correctly.

ENGINE OIL LEVEL

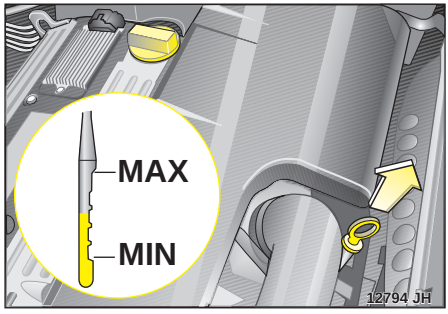
It is normal for every engine to consume some oil. For this reason, the engine oil level should be checked every 500 km and before starting a long trip.

Check the oil level

Check the oil level while the vehicle is parked on level ground and the engine is switched off and at normal operating temperature.

Before checking the oil level, wait at least 5 minutes after switching the engine off, to allow the oil to settle. If the engine is cold the oil may take considerably longer to drain back.

1. Remove the oil dipstick from the oil tube.
2. Wipe the dipstick clean.
3. Insert the dipstick back into the oil tube as far as it will go.
4. Wait for a few seconds before again removing the dipstick.
5. Check the oil level.



The oil level should be maintained between the MIN and MAX level indicators.

If you need to add oil, use the correct engine oil for your vehicle. Refer to Chapter 8.

Add oil

1. Remove the engine oil cap.
2. Add oil to bring the level to the top mark on the dipstick. As a guide, the distance between the marks represents 1 litre.

   Note: If the oil level goes above the top mark, the excess oil must be removed as there is a risk of damage to the engine or to the catalytic converter.
3. Wait a few minutes for the oil to settle then check the oil level again. When the level is correct, install the oil cap and the dipstick and clean up any spilt oil.

An oil consumption rate should not be judged until the vehicle has run several thousand kilometres. It may take this long for oil consumption to stabilise.

WARNING:

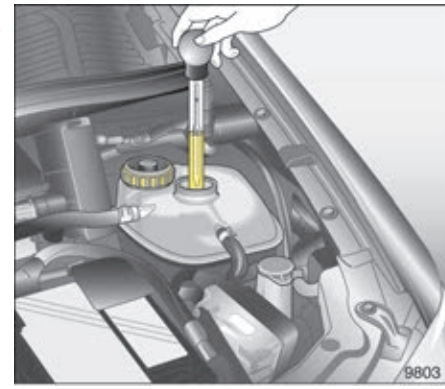
Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives is not recommended. Their use will increase costs, may be detrimental to the operation of your vehicle and may void your New Vehicle Warranty to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of your Holden vehicle.

ENGINE COOLANT LEVEL

The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic container, preferably when the engine is cold.

The level should be slightly above the KALT / COLD mark when the engine is cold. The level rises when the engine is running and drops again when the engine cools down. If the level falls below the COLD mark, the coolant should be topped up to a little over the mark.

The coolant required by your vehicle is specified in Chapter 8.



Topping up

If topping up, first mix a solution of 50% coolant and 50% water. Failure to use the coolant meeting Holden's specification or maintaining the specified concentration may result in voiding your warranty.

In an emergency, plain water may be used temporarily in the cooling system until the correct Holden coolant is obtained as soon as possible from the nearest Holden Retailer.

Note: The specified coolant contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This coolant also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to –28°C, provided the correct concentration is maintained. It remains in the cooling system throughout the year and does not need to be changed.

If the cooling system requires topping up at regular intervals, have your Holden Retailer check the system.

WARNING:

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention. Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

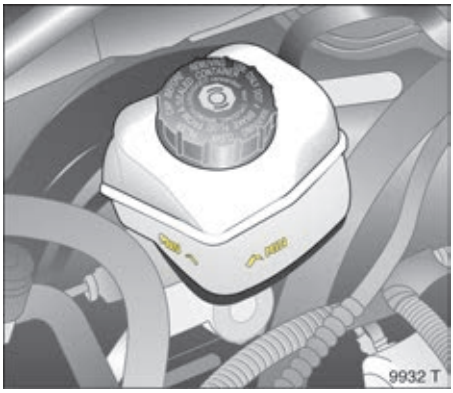
Refer to Chapter 6 if the engine overheats.

BRAKE, TRANSMISSION AND STEERING FLUID LEVELS

Brake fluid level

WARNING:

Brake fluid is poisonous and corrosive and will damage the finish of your vehicle if spilt on paintwork.



The brake fluid in the master cylinder should be checked weekly. The master cylinder is located in the engine bay, on the driver's side of the vehicle.

The fluid level, visible through the plastic master cylinder reservoir, should be between the MIN and MAX level markings.

If the fluid is between these levels do not remove the master cylinder cap.

Brake fluid exposed to the atmosphere quickly absorbs moisture. Moisture in brake fluid lowers the boiling point of the fluid and increases the risk of corrosion to brake components.

Add brake fluid

Use the correct brake fluid for your vehicle. Refer to Chapter 8.

Clean around the cap, add the brake fluid, secure the cap and wipe up any spilt fluid.

WARNING:

Use only new brake fluid. Use of an old, used or inferior brake fluid may endanger the functioning of the brake system. Brake fluid in your vehicle must be completely replaced every two years.

If the master cylinder requires constant topping up, a malfunction may exist. Have a Holden Retailer check the system immediately.

Automatic transmission fluid level (if fitted)

The fluid level will be checked when your vehicle is taken to your Holden Retailer for servicing (refer to Chapter 12). The automatic transmission fluid level does not require checking by the driver in between these scheduled services.

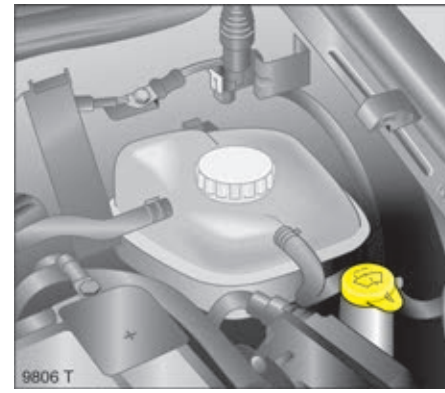
Power steering fluid level

The fluid level will be checked when your vehicle is taken to your Holden Retailer for servicing (refer to Chapter 12). The power steering fluid level does not require checking by the driver in between these scheduled services.

Special fluid is required for the power steering system in this vehicle. Refer to Chapter 8.

WASHER FLUID LEVEL AND BATTERY

Washer fluid level



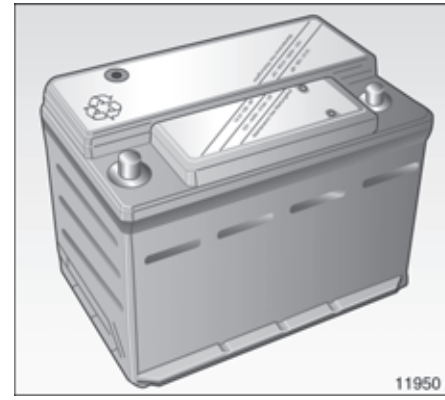
As the washer fluid is constantly used, the level should be checked weekly and topped up as required.

The washer container is located under the bonnet, near the battery and supplies both the windscreen and tailgate washers.

For a crystal clear windscreen, the correct amount of cleaner can be added. Refer to Chapter 11 for the additive recommended by your Holden Retailer. Do not use ordinary soap or detergent as these can froth up and might damage the rubber wiper blades.

Remember to secure the cap after filling.

Battery



Your vehicle is fitted with a maintenance free battery, which means that the fluid level does not need to be checked.

Note: Never disconnect the battery when the engine is running.

Battery charging

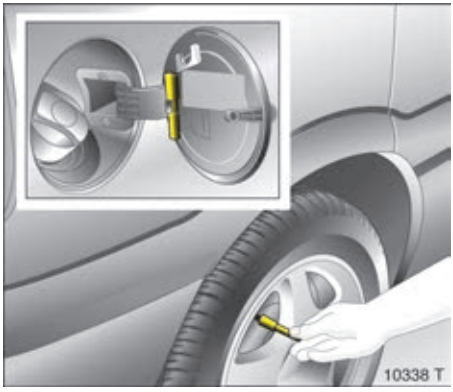
Never charge the battery while it is still connected to the vehicle. To remove the battery (for example, for recharging), first disconnect the negative cable, then the positive cable.

When reconnecting the battery, first connect the positive cable to the positive post of the battery, then connect the negative cable to the negative post of the battery.

If the vehicle is not used for more than four weeks, the battery could become discharged, which could shorten the service life of the battery. To avoid this, disconnect the negative cable from the battery and only reconnect it when you are ready to use the vehicle.

TYRES

Air pressure



Weekly checking of the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

For constant long distance or rough road driving, daily checking is recommended.

The correct pressure for your tyres is outlined on the tyre placard. For the location of the placard, refer to Chapter 8.

Use the valve cap tool, located on the inside of the fuel filler flap, to remove the caps more easily.

If the vehicle is heavily loaded, the recommended pressure for the tyres is increased (refer to the tyre placard on your vehicle) and the weekly air pressure check becomes even more important.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. Therefore, the pressure should be checked when the tyres have been stationary for over three hours. If they must be checked immediately after driving, increase the pressure shown on the placard by 10%.

The inflation pressure in the tyres should be increased according to the load on the vehicle. Therefore, if the vehicle is loaded to half the maximum load (refer to Chapter 10) then the tyres should be inflated half way between the minimum and maximum pressures shown on the tyre placard. Vehicles driven for prolonged periods over rough roads, particularly in outback conditions, should use the cold tyre inflation pressure on the tyre placard under maximum load conditions.

Always use a tyre pressure gauge to check the tyres; simply looking at the tyres is not sufficient.

If the pressure is too low, considerable tyre warm-up and internal damage can result, leading to tread separation and even to tyre blowout at high speeds. If the pressure is too high, reduced traction, increased risk of tyre blowout and poor tyre wear can result.

Remember to replace any valve caps or extensions, as this stops dirt and moisture from fouling the valves. When checking the tyre pressure, look at the condition of the tread and inspect the tyre for stones or abnormal wear.

If unsure, have your Holden Retailer check the tyres.

Alignment and balance

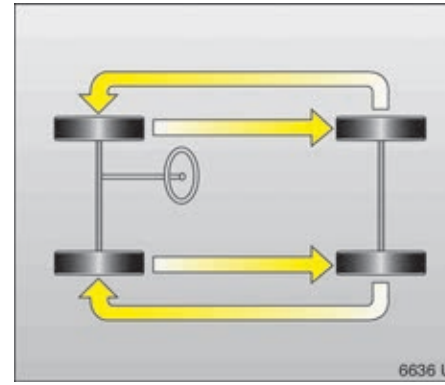
Improper wheel alignment can cause the tyres to wear faster and unevenly. It can also cause the vehicle to pull to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

If you have any reason to suspect that either of the above problems exist, arrange for a wheel alignment and balance check at your Holden Retailer.

TYRES cont.

Tyre inspection and rotation



Front and rear tyres perform different jobs. They can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

Tyre condition is checked for you when you have your vehicle serviced by your Holden Retailer. The Retailer is able to diagnose any unusual signs of wear.

If the tyres are rotated, it is recommended that they are balanced at the same time.

Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your vehicle for the purpose you require should be referred to your Holden Retailer.

Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed on your vehicle.

Note: Replacing your factory fitted wheels and tyres with non-specified wheels and tyres may affect your warranty and your motor vehicle insurance policy.

Tyre traction

WARNING:

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practices and speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of traction, which adversely affects control and stopping ability. To reduce the possibility of traction loss, observe the following precautions:

- Reduce speeds during rainstorms, when roads are slushy or if the road has standing water or puddles.
- Replace the tyres when the tread has worn down to the wear indicators.
- Check that tyres are properly inflated.

TYRES cont.

Tyre replacement and repair

WARNING:

Do not mix different tyre construction types on your vehicle, such as radial and cross ply, except in emergencies. Your vehicle's handling could be affected and may result in loss of control.

When replacing the tyres, ensure that the same size, load rating and construction type as the original tyres is used. Refer to the tyre placard on your vehicle for tyre size and load rating. For the tyre placard location, refer to Chapter 8. Using a different size or type of tyre may affect such things as ride, handling, speedometer / odometer calibration, ground clearance and tyre clearance to the body or chassis.

Tyres with a higher speed rating and / or a maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

Replace your tyres if any of the following situations occur:

- The tyres are worn to the extent that the tread wear indicators (illustrated) appear or the cord or fabric is showing.
- The tread or side wall is cut, split or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating internal tyre damage.
- The tyre has a puncture, cut or other damage which cannot be repaired due to the size or location of the damage.

If in doubt about the extent of damage to the tyre, have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage the tyre and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacturer's recommendations.

WARNING:

Tyres which have been repaired or retreaded cannot be operated safely at high speeds. Therefore, their use is not recommended.

Notes

Notes

CHAPTER 8

Specifications

Page

8-2 Vehicle specifications

8-4 Identification labels

VEHICLE SPECIFICATIONS

Engine type	Z 22 SE DOHC
No of cylinders	4
Bore	86.0 mm
Stroke	94.6 mm
Compression ratio	10:1
Piston displacement	2198 cc
Power kW @ rpm	108 @ 5600
Torque Nm @ rpm	203 @ 4000
Oil specification	ACEA specification A2 or A3 viscosity grade 5W-40 or 5W-50
Refill oil capacity (including filter)	5.0 litres (including filter)
Fuel tank capacity	61 litres
Coolant capacity	7.4 litres (manual) 7.6 litres (automatic)
Coolant spec	50% water and 50% extended-life anti-freeze coolant conforming to Holden specification GM6277M
Power steering fluid type	Hydraulic fluid to Holden specification number HN2305 (Pentosin CHF 11S Hydraulic fluid).
Brake fluid type	Heavy duty brake fluid, SAE specification J1704, DOT 4

VEHICLE SPECIFICATIONS cont.

Transmission

	5 speed manual	4 speed automatic
Fluid (drain and refill)	Gear oil meeting Holden specification no. HN2354 (Castrol SMX-O or equivalent)	Auto transmission fluid meeting Holden specification no. HN2414 (ESSO JWS 3309)
Capacity	1.6 litres approx.	4 litres approx. (service fill)
Clutch fluid type	Heavy duty brake fluid meeting SAE specification J1704, DOT 4.	–

Dimensions

Overall length	4317 mm
Overall height	1684 mm
Overall width Overall width (incl. mirrors)	1742 mm 1999 mm
Wheelbase	2694 mm
Front track *	1470 mm
Rear track *	1487 mm
Ground clearance	103 mm

* (with standard tyres)

Battery

Volts	12
Amps	66 amp / hours

IDENTIFICATION LABELS

1 Compliance plate

The compliance plate is located in the engine bay, on the inner wheel house panel, above the windscreen washer bottle.

This plate shows the vehicle approval number, category code, make, model and seating capacity. Also shown on this plate is the ISOVIN. Refer to the ISOVIN breakdown, following.

2 Holden identification plate (if fitted)

The Holden Identification Plate is located on the driver's side of the radiator support panel. The Holden Number on the Identification Plate is used for identification, such as for warranty and Roadside Assistance.

3 Option code plate (if fitted)

The plate shows the option codes applicable to your vehicle.

4 Emission label

This label shows the relevant tune-up information required to maintain minimum exhaust emissions and is located on the underside of the bonnet.

5 Vehicle identification number label

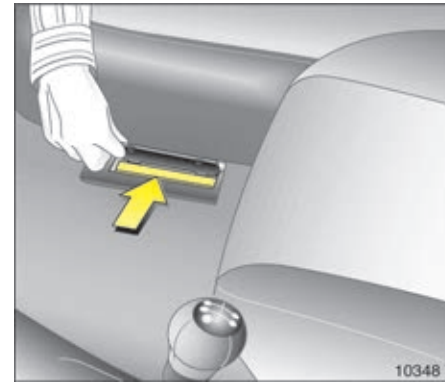
This label shows the ISOVIN number, which should be used for identification with spare parts. Refer to the ISOVIN breakdown, following.

6 Vehicle identification number stamp

This stamp shows the ISOVIN, which should be used for identification with spare parts. Refer to the ISOVIN breakdown, following.

The number is stamped onto the sill inner panel under a cover, to the right of the driver's seat.

A sticker printed with the ISOVIN is located near the driver's door lock, visible when the door is open.



7 Fuel label

Refer to Chapter 5 for the type of unleaded fuel recommended for use.

8 Tyre placard

The tyre placard, located on the inside of the fuel filler flap, shows the recommended tyre pressures. Refer to Chapter 7 for tyre pressure information.

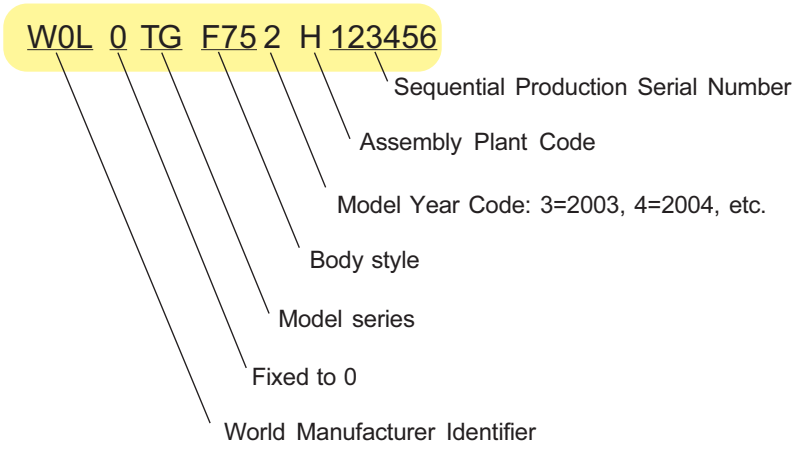
9 Engine number

Individual identification numbers are stamped onto the engine, near the engine oil dipstick.

IDENTIFICATION LABELS cont.

Vehicle identification number (ISOVIN)

The individual ISOVIN (example below) appears on the compliance plate. This number is used for identification of parts.



CHAPTER 9

After Sales

Page

9-2 New Vehicle Warranty Certificate

9-4 Parts and accessories warranty

9-5 Warranty questions and answers

9-8 Roadside Assistance

9-10 Customer assistance

9-11 For New Zealand Holden owners

9-12 Australian Holden Retailers

9-28 New Zealand Holden Retailers

Note: Retailer names and details may change after the printing of this Handbook. The list contains both Authorised Holden Retailers and Authorised Holden Service Operations.

NEW VEHICLE WARRANTY CERTIFICATE

New Vehicle Warranty application

This Warranty is given by Holden Ltd., ABN 84 006 893 232, ('Holden'). The Warranty applies to the vehicle identified on the inside front cover of this Owner's Handbook. It is provided to the original and subsequent owners / operators driving the vehicle within Australia during the Warranty Period.
This Warranty is given in addition to all rights conferred by law on that person.

Australian vehicles

This Warranty is only applicable to vehicles purchased and operated in Australia.

Owners of vehicles purchased in Australia but operated overseas should consult the local Retailer in the country of operation about any Warranty applicable to their vehicle. This Warranty does not apply for Holden vehicles exported overseas. Similarly, this Warranty is not provided for vehicles purchased overseas and imported into Australia.

Repairs covered

Subject to the exclusions shown on the following page, this Warranty covers the correction, during the Warranty Period, of any vehicle defect related to materials or workmanship and advised to a Holden Retailer or Authorised Service Outlet, by repair or at Holden's option by replacement.

Warranty Period

The coverage commences from the date of delivery (or in the case of a demonstrator vehicle the date when the vehicle was first placed into service by the Retailer). The coverage expires at the end of the period of 3 years after the commencement date or after the vehicle has travelled 100 000 km, whichever occurs first.

No charge

Warranty work undertaken (including parts and labour) will be carried out at no cost to the vehicle owner. However, this work should not be confused with servicing specified in the Maintenance schedule in Chapter 12 of this Owner's Handbook for which a charge is payable.

NEW VEHICLE WARRANTY CERTIFICATE cont.

Warranty exclusions

- **Damage**

Your Warranty does not extend to the following damage:
Damage caused by an accident, fire, theft or moving objects striking the vehicle.

Damage caused by industrial fallout, chemicals or sealants. Damage caused by atmospheric fallout or flood, hail, salt, etc.

- **Maintenance items**

Services which are required as part of normal vehicle maintenance, such as brake adjustment, replacement of filters and wiper rubbers, refer to Chapter 12.

- **Tyres**

The tyres (and tubes where applicable) fitted to your vehicle are not covered by this Warranty. However, they may be covered by the tyre manufacturer.

- **Batteries**

Batteries are warranted for 12 months.

- **Misuse**

The warranty does not cover damage caused by:

(a) misuse or abuse of the vehicle, such as by racing, rallying, overloading or neglect,

(b) operation of the vehicle after the defect is known,

(c) failure to carry out proper maintenance services,

(d) use of incorrect types and grades of fuel, oil or lubricants,

(e) alteration of the vehicle by anyone not authorised by Holden,

(f) fitting of parts or accessories not recommended by Holden,

(g) any work carried out on the vehicle by anyone except a Holden Retailer or authorised Service Outlet.

PARTS AND ACCESSORIES WARRANTY

Holden warrants Holden approved Parts and Accessories ('Parts' and 'Accessories') for the periods and on the conditions set out below. The Warranty covers the correction, during the relevant Warranty Period, of defects in any such Parts and Accessories, by repair or at Holden's option, by replacement.

- **Accessories installed to the new vehicle**

  Holden approved Accessories installed by a Holden Retailer or authorised Service Outlet to the new vehicle at the time of purchase are covered together with the New Vehicle warranty for the period of 3 years or 100 000 km, whichever occurs first.

- **Parts and Accessories installed after new vehicle delivery by a Holden Retailer or authorised Service Outlet**

  Parts and Accessories are covered for 2 years or 50 000 km (whichever occurs first). If the vehicle is still within the New Vehicle Warranty the Parts and Accessories are covered by the longer of:

  - 2 years / 50 000 km (whichever occurs first), or
  - the end of the New Vehicle Warranty.

  As an example, an Accessory installed in a 7 month old vehicle would be covered until the end of the New Vehicle Warranty; an Accessory installed in a 2½ year old vehicle would be covered until the end of 4½ years or a further 50 000 km from when the Accessory was installed.

- **Purchased at retail or trade**

  Parts and Accessories purchased at trade or retail and installed by other than a Holden Retailer or authorised Service Outlet are warranted for 1 year from the date of purchase. Please keep a receipt to support warranty claims.

  The Warranty does not cover the labour costs of removal / reinstallation of Parts and Accessories when installed or rectified by other than a Holden Retailer or authorised Service Outlet.

- **Parts and accessories warranty exclusions**

  The tyres (and tubes where applicable) are not covered by this warranty. However, they may be covered by the tyre manufacturer.

  Batteries are warranted for 12 months from date of purchase.

  Parts which are required as part of normal vehicle maintenance are warranted against manufacturing defect at the time of installation. Consult your Holden Retailer to confirm the period of this warranty.

WARRANTY QUESTIONS AND ANSWERS

This section is designed to assist you in understanding the Holden Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers are provided.

Q 1. How do I go about obtaining Holden Warranty service?

It is the responsibility of the Holden Selling Retailer to provide Holden Warranty service, therefore you should take your vehicle to the Holden Selling Retailer whenever Holden Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Retailer. The details recorded inside the front cover of this handbook will be required by the Holden Retailer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden New Vehicle Warranty?

You should contact the nearest Authorised Holden Retailer or Holden Customer Assistance Service (refer further in this chapter) as soon as possible, and arrange for that Retailer to carry out the required Holden Warranty Service.

Q 3. What should I do if, in an emergency, Holden Warranty service is required and an Authorised Holden Retailer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the Holden New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Retailer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Retailer who would normally provide you with Holden Warranty Service. You must also take your vehicle to the Authorised Holden Retailer for inspection of the service and / or completion of any required Holden Warranty service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Retailer or Holden Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden Warranty?

No, these items are not covered. Holden warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden New Vehicle Warranty, but any claim based on those rights should be separately pursued.

WARRANTY QUESTIONS AND ANSWERS cont.

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden New Vehicle Warranty. The Maintenance Schedule in Chapter 12 specifies the minimum maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay include:

- Engine tune-up, including spark plugs replacement.
- Replacement of filters, engine and other belts, hoses, wiper blades and clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etcetera, after 1500 km.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding or replacing lubricants.
- Adding or replacing air conditioning refrigerant, after 1500 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing, after 5000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads, after 1500 km.
- Brake lining wear or damaged brake components due to lining wear.
- Clutch lining wear or damaged clutch components due to lining wear.
- Brake disc pad or disc wear.
- Battery recharging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment, after 1500 km.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments, after 1500 km.
- Body rattles, squeaks, general tightening of bolts, fasteners and fittings, after 1500 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

Q 6. Are my tyres covered by the Holden New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. An authorised Holden Retailer will assist you by discussing the queries that you have with respect to the tyre manufacturer's warranty, with the tyre manufacturer's representative.

WARRANTY QUESTIONS AND ANSWERS cont.

Q 7. Will I have to pay for any costs or expenses in connection with the provision of Holden Warranty service?

All parts and labour used in carrying out Holden Warranty service at the premises of the servicing Holden Retailer are free of charge. Whenever Holden Warranty service is to be carried out by the servicing Holden Retailer it is your responsibility to deliver your vehicle to the servicing Holden Retailer's premises.

If, as a result of a defect which is covered by the Holden New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest authorised Holden Retailer to carry out the required Holden Warranty service, Holden will accept reasonable towing costs to move your vehicle to the nearest Holden Retailer's premises. Before employing a towing company, contact the nearest Holden Retailer and / or Holden Customer Assistance Service (refer page 10 of this Chapter) to obtain guidance.

Q 8. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle and may affect the validity of your New Vehicle Warranty.

Only the fluids and lubricants referred to in this handbook should be used.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN PRODUCTS

No Holden Retailer or other person is authorised or permitted to give or make any statement, assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden product or in connection with the supply of any Holden product, which is at variance with any written statement, assertion or undertaking on any of these subjects given or made by Holden in its published sales literature, and Holden does not accept responsibility for any such unauthorised action.

Normally, any problems with the sales, operation, servicing or the validity of original equipment supplied with your vehicle will be handled by your Holden Retailer's Sales and Service Department.

ROADSIDE ASSISTANCE

3 YEAR
24 HOUR ROADSIDE ASSISTANCE

Our commitment to your satisfaction

Holden's Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we'll be there to help through Holden Roadside Assistance.

How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by Holden Ltd. and delivered by the collective resources of the Australian Automobile Clubs and Associations including the constituents of Assist Australia (AA).

Which vehicles are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months from the date of first registration.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your vehicle to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside **Ultra** Assist which includes accommodation, alternative transport, rental vehicle, assistance in case of accident, theft and medical emergency and Australia wide vehicle recovery.

Can I upgrade to Roadside Ultra Assistance?

Yes, owners can upgrade to Holden Roadside **Ultra** Assistance for a fee by dialling 1800 645 668. To request a copy of the Ultra terms and conditions, contact the toll free Customer Assistance Service Line on 1800 033 349.

ROADSIDE ASSISTANCE cont.

When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home or at the roadside, anywhere in Australia. In remote or sparsely populated areas, you may experience delays in obtaining Roadside Assistance due to your location, the availability of the service provider and accessibility.

Is there a membership or joining fee?

No. Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting your local Holden Retailer.

What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the balance of the Holden Roadside Assistance. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing or the validity of original equipment supplied with your vehicle will be handled by your Holden Retailer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Holden Retailer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager – go to the General Manager or to the Retailer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

The Australian Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is **9646 5466**. Outside the Melbourne Metropolitan area, the number is **1800 03 3349**.

If your concern relates to parts / accessories and you have made contact with the Retailer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9797 7341.

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address
- Telephone numbers, both private and business
- Servicing Retailer Premises name and address
- Vehicle model
- Vehicle identification number (ISOVIN.), refer to the inside front cover of this Handbook.
- Date of purchase
- Current odometer reading

Most of this information can be found on the Vehicle Identification Certificate, located inside the front cover of this Handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

FOR NEW ZEALAND HOLDEN OWNERS

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand. Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glovebox wallet.

For your convenience, a list of New Zealand Retailers is provided at the end of this Chapter.

New Zealand Assistance can be reached on:

0800 HOLDEN (0800 465336)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

If you prefer to write, the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne
Australia 3001

AUSTRALIAN HOLDEN RETAILERS

N.S.W. Metropolitan

ARNCLIFFE
Suttons Motors Arncliffe P/L
93 Princes Highway
P: (02) 9335 9000 FAX: (02) 9335 9006

ARNDELL PARK
Heartland Holden
8 Holbeche Road
P: 13 10 88 FAX: (02) 9676 6255

ASHFIELD
Muirs Holden
252 Parramatta Road
P: (02) 9798 8888 Fax: (02) 9799 7010

BALGOWLAH
Peninsula Holden Balgowlah
164 Condamine Street
P: (02) 9949 1888 FAX (02) 9949 7237

BANKSTOWN
Peninsula Holden Bankstown
466 Chapel Road
P: (02) 9790 1234 Fax: (02) 9790 0033

BLACKTOWN
Heartland Holden
120~128 Sunnyholt Road
P: (02) 9622 7333 Fax: (02) 9671 7394

CAMDEN
Paul Wakeling Holden-Camden
33 Edward Street
P: (02) 4655 5000 Fax: (02) 4655 5001

CAMPBELLTOWN
Paul Wakeling Holden
Cnr Blaxland & Campbelltown Roads
P: (02) 4628 1444 Fax: (02) 4628 3262

CASTLE HILL
Heartland Holden
Cnr Victoria Ave/Windsor Road
P: (02) 9894 6666 Fax: (02) 9894 5600

CHATSWOOD
Sundell Holden
Cnr Smith and Gibbes Street
P: (02) 9417 8431 Fax: (02) 9417 7552

CHULLORA
Suttons Motors (Chullora) P/L
Cnr Hume Hwy/Waterloo Road
P: (02) 9642 0233 Fax: (02) 9642 7798

CREMORNE
Hunter Holden
261 Military Road
P: (02) 9904 1111 Fax: (02) 9904 1444

DEE WHY
Peninsula Holden Dee Why
Cnr May & Mooramba Roads
P: (02) 9982 1311 Fax: (02) 9982 3755

EAST SYDNEY
Suttons City Holden
101 Williams Street
P: (02) 9331 3377 Fax: (02) 9331 6312

FAULCONBRIDGE, BLUE MOUNTAINS
Blue Mountains Holden
435~437 Great Western Hwy
P: (02) 4751 1911 Fax: (02) 4751 2481

HOMEBUSH
Suttons Motors Homebush P/L
112 Parramatta Road
P: (02) 9746 4500 Fax: (02) 9746 7206

LANSVALE
Lansvale Holden
266~284 Hume Highway
P: (02) 9728 7333 Fax: (02) 9726 1085

LIVERPOOL
McGrath Holden
411~419 Hume Highway
P: (02) 9821 5000 Fax: (02) 9821 1993

PARRAMATTA
Heartland Holden
65 Church Street
P: (02) 9204 6666 Fax: (02) 9635 6346

PENNANT HILLS
Barry Smith Holden
343~355 Pennant Hills Road
P: (02) 9483 3333 Fax: (02) 9484 7475

PENRITH
Heartland Holden
39-47 Henry St
P: (02) 4732 1966 Fax: (02) 4721 5896

ROSEBERY
Suttons City Holden
Link Road
P: (02) 9931 3000 Fax: (02) 9931 3001

RYDE
Hunter Holden
603~619 Victoria Road
P: (02) 8878 7878 Fax: (02) 8878 9578

ST LEONARDS
Hunter Holden
4 Herbert Street
P: (02) 9906 4044 Fax: (02) 9439 4635

ST. MARY'S
Heartland Holden
Cnr Glossop & Harris Streets
P: (02) 9673 2111 Fax: (02) 9673 4932

SUTHERLAND
McGrath Holden Sutherland
499~505 Princes Highway
P: (02) 9545 4811 Fax: (02) 9545 2533

AUSTRALIAN HOLDEN RETAILERS CONT.

WAITARA
Suttons Motors Waitara P/L
90 Pacific Hwy
P: (02) 9487 2222 Fax: (02) 9489 0009
WINDSOR
Hawkesbury Valley Holden
18 Macquarie Street
P: (02) 4577 4077 Fax: (02) 4577 2592

N.S.W. Country

ARMIDALE
Graham Betts Holden
103 Rusden Street
P: (02) 6772 9444 Fax: (02) 6772 5836
BALLINA
Quayside Motors
Cnr Ronan Place & Pacific Hwy
P: (02) 6686 5111 Fax: (02) 6686 8574
BATHURST
Bathurst Holden
Mitchell Highway
P: (02) 6331 2077 Fax: (02) 6331 9177
BEGA
Bega Valley Holden
Cnr Upper and Gibbs Sts
P: (02) 6492 2333 Fax: (02) 6492 3105
BLAYNEY
Blayney Holden
98 Adelaide Street
P: (02) 6368 2745 Fax: (02) 6368 3257
BOMBALA
Delcott Engineering Pty Ltd
Maybe Street
P: (02) 6458 3341 Fax: (02) 6458 3940
BOOROWA
Boowowa Auto Repairs
40 Marsden Street
P: (02) 6385 3305
BROKEN HILL
Donlee Motors Pty Ltd
Cnr Galena & Rakow Streets
P: (08) 8087 2463 Fax: (08) 8087 7971
CARDIFF
Kelly Holden
35~39 MacQuarie Road
P: (02) 4954 7733 Fax: (02) 4954 9407
CASINO
Quayside Motors
142 Barker Street
P: (02) 6662 2822 Fax: (02) 6662 2101
CESSNOCK
Geoff Boyd Holden
240~246 Maitland Road
P: (02) 4990 0555 Fax: (02) 4990 0575
COBAR
Cobar Holden
Cnr Lewis St & Louth Road
P: (02) 6836 4005 Fax: (02) 6836 3409
COFF'S HARBOUR
Geoff King Holden
Cnr Pacific Hwy and Thompson Road
P: (02) 6652 2288 Fax: (02) 6652 5360
COOMA
High Country Holden
66~70 Sharp Street
P: (02) 6452 1077 Fax: (02) 6452 1142
COONABARABRAN
Coonabarabran Holden
24 Charles Street
P: (02) 6842 1499 Fax: (02) 6842 2473
COONAMBLE
Moody's Motors
37 Aberford Street
P: (02) 6822 1161 Fax: (02) 6822 1624
COOTAMUNDRA
Jenkins Garage
111 Wallendoon Street
P: (02) 6942 2522 Fax: (02) 6942 1493
COROWA
Jasper Bros. Pty Ltd
245 Honour Avenue
P: (02) 6033 0391 Fax: (02) 6033 3319
COWRA
Waugoola Motors Pty Ltd
Kendal Street
P: (02) 6342 1800 Fax: (02) 6342 3614
CROOKWELL
Crookwell Autos
114 Goulburn Street
P: (02) 4832 1433 Fax: (02) 4832 2157
DENILIQUIN
Burchfield Bros & Co
112~114 End Street
P: (03) 5881 2133 Fax: (03) 5881 3322
DORRIGO
Phil Noble Motors
46~48 Hickory Street
P: (02) 6657 2017 Fax: (02) 6657 2217
DUBBO
Golden West Holden
54 Bourke Street
P: (02) 6882 1011 Fax: (02) 6882 7102
DUNGOG
Turner Holden
1 Park Street
P: (02) 6558 1108 Fax: (02) 6558 2317

AUSTRALIAN HOLDEN RETAILERS cont.

EDEN
Ron Doyle
113 Princes Highway
P: (02) 6496 1420 Fax: (02) 6496 1467

FINLEY
Riverina Holden
104 Murray Street
P: (03) 5883 1211 Fax: (03) 5883 1638

FORBES
Frank Spice Holden
20~22 Dowling Street
P: (02) 6851 1755 Fax: (02) 6852 4089

GATESHEAD
Brian Kelly Holden
39 Pacific Highway
P: (02) 4920 7000 Fax: (02) 4920 8008

GILGANDRA
Gilgandra Holden
1 Morris Street
P: (02) 6847 1888 Fax: (02) 6847 1277

GLEN INNES
Glen Severn Holden
167 Grey Street
P: (02) 6732 2888 Fax: (02) 6732 3394

GLOUCESTER
Turner Holden
1 Park Street
P: (02) 6558 1108 Fax: (02) 6558 2317

GOSFORD
Barry Robertson Holden
10 Pacific Highway
P: (02) 4325 0511 Fax: (02) 4324 1043

GOULBURN
Geissler Motors
279~298 Auburn Street
P: (02) 4821 3744 Fax: (02) 4821 9798

GRAFTON
Ken Casson Holden
37~39 Turf Street
P: (02) 6642 6666 Fax: (02) 6642 6737

GRIFFITH
Leo Franco Holden
164~166 Yambil Street
P: (02) 6964 2977 Fax: (02) 6962 4916

GUNNEDAH
Namoi Valley Motors
48 Barber Street
P: (02) 6742 0211 Fax: (02) 6742 3842

HARDEN
Ginty & O'Leary
Cnr Station & Albury Streets
P: (02) 6386 2320 Fax: (02) 6386 2722

HAY
Royce Curtis Motors
168 Lachlan Street
P: (02) 6993 1503 Fax: (02) 6993 2212

HOLBROOK
Lieschke Motors Pty Ltd
78 Albury Street
P: (02) 6036 2244 Fax: (02) 6036 2831

INVERELL
Gaukroger Sales Pty Ltd
28-30 Vivian Street
P: (02) 6722 2722 Fax: (02) 6722 1804

KANDOS
Chrisfield Holden
11 Angus Street
P: (02) 6379 4204 Fax: (02) 6379 4606

KEMPSEY
Thoroughgood Holden
118~132 Belgrave Street
P: (02) 6562 1381 Fax: (02) 6562 1383

KIAMA
Glen Fulton Holden
35~41 Collins Street
P: (02) 4232 1888 Fax: (02) 4232 3062

KYOGLE
O & H Holden
128~134 Summerland Way
P: (02) 6632 1711 Fax: (02) 6632 2552

LEETON
John Ryan Holden
47~51 Pine Avenue
P: (02) 6953 2466 Fax: (02) 6953 6725

LISMORE
Quayside Motors
30 Ballina Road
P: (02) 6621 1888 Fax: (02) 6622 4659

LITHGOW
Lithgow City Holden
255 Main Street
P: (02) 6351 4555 Fax: (02) 6351 4653

MACKSVILLE
Eastland Holden
18~22 Cooper Street
P: (02) 6568 1711 Fax: (02) 6568 1816

MACLEAN
O'Halloran Motors
175 River Street
P: (02) 6645 2844 Fax: (02) 6645 4003

MAITLAND
Heritage Holden
Cnr New England Hwy & Bungaree St
P: (02) 4932 0779 Fax: (02) 4932 0473

MOREE
Keith Haddad Holden
Cnr Boston & Heber Streets
P: (02) 6752 1855 Fax: (02) 6752 1298

MORUYA
Surfair Holden
88 Vulcan Street
P: (02) 4474 2555 Fax: (02) 4474 2129

AUSTRALIAN HOLDEN RETAILERS cont.

MOSS VALE
Moss Vale Holden
160~162 Argyle Street
P: (02) 4868 1055 Fax: (02) 4868 3330
MUDGEE
Ross Granata Motors
32 Sydney Road
P: (02) 6372 1766 Fax: (02) 6372 3735
MULLUMBIMBY
Tony Carsburg Holden
2 Argyle Street
P: (02) 6684 2066 Fax: (02) 6684 4593
MURWILLUMBAH
Twin Towns Holden
29 Prospero Street
P: (02) 6672 4444 Fax: (02) 6672 5811
MUSWELLBROOK
Muswellbrook Holden
116 Bridge Street
P: (02) 6543 2577 Fax: (02) 6543 2565
NARROMINE
Narromine Holden
45~51 Dandaloo Street
P: (02) 6889 1244 Fax: (02) 6889 2277
NARRABRI
Allan Cooper Holden
181 Maitland Street
P: (02) 6792 3488 Fax: (02) 6792 4750
NEWCASTLE
Newcastle City Holden
King Street (Cnr Stewart Ave)
P: (02) 4961 5301 Fax: (02) 4961 6485
NOWRA
Glendon Motors Holden
301~313 Princes Highway
P: (02) 4421 0144 Fax: (02) 4423 0854
ORANGE
Canobolas Holden
Cnr Summer St & Endsleigh Ave
P: (02) 6362 0155 Fax: (02) 6361 3702
PARKES
Broderick Motors Holden
Cnr Mitchell & Clarinda Sts
P: (02) 6862 2266 Fax: (02) 6862 1406
PORT MACQUARIE
Bob Todd Motors Pty Ltd
115 Gordon Street
P: (02) 6583 1100 Fax: (02) 6584 9508
QUIRINDI
Browning Motors
82 Henry Street
P: (02) 6746 1666 Fax: (02) 6746 1422
SCONE
Scone Holden
100 Liverpool Street
P: (02) 6545 1355 Fax: (02) 6545 1853
SINGLETON
Lancaster Holden
80 John Street
P: (02) 6578 8700 Fax: (02) 6578 8733
TAMWORTH
Kensell's Holden
Cnr Bourke St & Kable Ave
P: (02) 6766 6699 Fax: (02) 6766 7339
TAREE
Cullen Holden
21~25 Victoria Street
P: (02) 6552 2222 Fax: (02) 6552 1269
TEMORA
Rod Lovering Holden
607-608 Stockinbingal Road
P: (02) 6977 2255 Fax: (02) 6977 2033
TENTERFIELD
Sexton & Green (Sales & Service) P/L
148 Rouse Street
P: (02) 6736 1855 Fax: (02) 6736 1946
TUGGERAH
Barry Robertson Holden
172 Pacific Highway
P: (02) 4351 2588 Fax: (02) 4352 1759
TUMUT
Holden Tumut Service Centre
52 Adelong Road
P: (02) 6947 6374 Fax: (02) 6947 6314
TUNCURRY
Cullen Holden
144 Manning Street
P: (02) 6555 6644 Fax: (02) 6555 7433
TWEED HEADS
Von Bibra Twin Towns Holden
75-79 Pacific Highway
P: (07) 5536 3411 Fax: (07) 5536 4490
ULLADULLA
Alan May Holden
169 Princes Highway
P: (02) 4455 1166 Fax: (02) 4455 4122
WAGGA WAGGA
Wagga Motors Pty Ltd
32 Dobney Avenue
P: (02) 6925 3411 Fax: (02) 6925 3283
WALGETT
Walgett Garage Pty Ltd
81 Wee Waa Street
P: (02) 6828 1088 Fax: (02) 6828 1198
WALLA WALLA
D.E. Lieschke & Son Pty Ltd
63 Commercial Road
P: (02) 6029 2202 Fax: (02) 6029 2134
WARIALDA
Roger Moore
Hope Street
P: (02) 6729 1570 Fax: (02) 6729 1104

AUSTRALIAN HOLDEN RETAILERS cont.

WARILLA
Wilson's Holden
29 Shellharbour Road
P: (02) 4295 1223 Fax: (02) 4296 1007
WARREN
Fuller Bros
Dubbo Street
P: (02) 6847 4978 Fax: (02) 6847 4477
WELLINGTON
Gersbach's Garage Pty Ltd
92 Lee Street
P: (02) 6845 2733 Fax: (02) 6845 3236
WEST WYALONG
West Wyalong Motors
183 Main Street
P: (02) 6972 2388 Fax: (02) 6972 2570
WOLLONGONG
Dwyers City Holden
31~33 Crown Street
P: (02) 4229 9222 Fax: (02) 4229 5105
YOUNG
Harden & Geelan Holden
30 Boorowa Street
P: (02) 6382 1155 Fax: (02) 6382 4673

A.C.T.

BELCONNEN
Gerald Slaven Holden
2 Josephson Street
P: (02) 6251 5111 Fax: (02) 6253 1298
BRADDON
Rolfe Holden
44 Mort Street
P: (02) 6248 7888 Fax: (02) 6257 1328
PHILLIP
Commonwealth Motors Pty Ltd
158 Melrose Drive
P: (02) 6282 3522 Fax: (02) 6282 5214

Tas.

BURNIE
Motors Burnie
Marine Terrace
P: (03) 6431 1122 Fax: (03) 6431 3146
DEVONPORT
Motors Devonport
Victoria Parade
P: (03) 6424 4033 Fax: (03) 6424 5249
HOBART
Motors Pty Ltd
179 MacQuarie Street
P: (03) 6230 7307 Fax: (03) 6230 7380

Vic. Metropolitan

BACCHUS MARSH
Alan Mance Holden Bacchus March
4 Graham Street
P: (03) 5367 4300 Fax: (03) 53674299
BERWICK
Barry Bourke Holden
755 Princes Highway
P: (03) 9707 2222 Fax: (03) 9707 3091
BUNDOORA
Watson Holden
413 Grimshaw Street
P: (03) 9467 4677 Fax: (03) 9467 7661
BURWOOD
Penfold Holden
142 Burwood Highway
P: (03) 9268 1333 Fax: (03) 9268 1335
CHELSEA
Harrison Holden
370 Nepean Highway
P: (03) 9772 2233 Fax: (03) 9772 2190
CHELTENHAM
Booran Holden
1212 Nepean Highway
P: (03) 9584 3333 Fax: (03) 9584 4285
DANDENONG
Booran Holden
17 Lonsdale Street
P: (03) 9794 5455 Fax: (03) 9792 4871
DONCASTER
Doncaster Holden
808 Doncaster Road
P: (03) 9848 1330 Fax: (03) 9848 1331
ELSTERNWICK
Summit Holden
67 Nepean Highway
P: (03) 9528 2222 Fax: (03) 9532 8636
ESSENDON
Preston Motors (Essendon) P/L
205~211 Keilor Road
P: (03) 9374 2888 Fax: (03) 9379 6754
FAWKNER
Mantello Holden
1263 Sydney Road
P: (03) 9359 1333 Fax: (03) 9359 9334
FERNTREE GULLY
Ferntree Gully Holden
980 Burwood Highway
P: (03) 9753 1222 Fax: (03) 9753 1242
FOOTSCRAY
Alan Mance Holden
435 Barkly Street
P: (03) 9396 8000 Fax: (03) 9396 8001

AUSTRALIAN HOLDEN RETAILERS cont.

FRANKSTON
Bay City Holden
140 Dandenong Road
P: (03) 9784 4444 Fax: (03) 9784 4419
GLENHUNTLY
Booran Holden
1234 Glenhuntly Road
P: (03) 9571 9313 Fax: (03) 9571 8374
GLEN WAVERLEY
Barloworld Holden
565~577 Springvale Road
P: (03) 9550 5888 Fax: (03) 9550 5855
HEIDELBERG
Ralph D'Silva Holden
112 Bell Street
P: (03) 9479 4088 Fax: (03) 9450 2909
LILYDALE
Heritage Holden
344 Main Street
P: (03) 9735 5566 Fax: (03) 9735 1040
MELTON
Alan Mance Holden
1 Holland Drive
P: (03) 9746 9666 Fax: (03) 9746 9555
MORNINGTON
John Collins Holden
976 Nepean Highway
P: (03) 5975 4433 Fax: (03) 5975 4720
OAKLEIGH
Garry & Warren Smith
1575 Dandenong Road
P: (03) 9568 6333 Fax: (03) 9568 5691
PRESTON
Ralph D'Silva Holden
573~603 High Street
P: (03) 9471 0500 Fax: (03) 9478 3103
RINGWOOD
Patterson Cheney Holden
45~57 Maroondah Highway
P: (03) 9262 6666 Fax: (03) 9870 1113
ROXBURGH PARK
Mantello Holden Roxburgh Park
215 Somerton Road
P: (03) 9930 4444 Fax: (03) 9930 4400
SOUTH MELBOURNE
South City Holden
380 City Road
P: (03) 9627 3333 Fax: (03) 9682 6888
SOUTH YARRA
Penfold Holden
681 Chapel Street
P: (03) 9827 2272 Fax: (03) 9826 5328
SUNBURY
Sunbury Holden
93~95 Horne Street
P: (03) 9740 3000 Fax: (03) 9740 4777
SUNSHINE
Kevin Dennis Holden
272 Ballarat Road
P: (03) 9292 9292 Fax: (03) 9292 9200
WERRIBEE
Ballan Holden
56 Princes Highway
P: (03) 9974 8888 Fax: (03) 9974 8899
WEST MELBOURNE
Summit Holden
577 King Street
P: (03) 9329 6611 Fax: (03) 9329 1550

Vic. Country

ALEXANDRA
Alexandra Total Automotive Services
120 Grant Street
P: (03) 5772 1588 Fax: (03) 5772 1978
ARARAT
David Reid Motors
High Street
P: (03) 5352 4100 Fax: (03) 5352 4388
BAIRNSDALE
The Big Garage
628 Princes Highway
P: (03) 5152 4131 Fax: (03) 5152 5313
BALLARAT
Peter Amor Motors
211 Gillies Street
P: (03) 5339 9333 Fax: (03) 5339 9202
BENALLA
Arnott's Motors
88~90 Bridge Street
P: (03) 5762 2500 Fax: (03) 5762 1586
BENDIGO
Ron Poyser Holden
Cnr High & Myrtle Streets
P: (03) 5442 3999 Fax: (03) 5442 7766
CAMPERDOWN
Camperdown Auto Parts
96 Manifold Street
P: (03) 5593 1983 Fax: (03) 5593 1979
CASTERTON
Coxons Holden
139 Henty Street
P: (03) 5581 1166 Fax: (03) 5581 2116
CHARLTON
Walsh Motors, Charlton
70~74 High Street
P: (03) 5491 1444 Fax: (03) 5491 1984

AUSTRALIAN HOLDEN RETAILERS cont.

COBRAM
Neville Mustica Motors
Murray Valley Hwy
P: (03) 5872 1666 Fax: (03) 5872 1920
COHUNA
Hare Motors Holden
105~107 King George Street
P: (03) 5456 4488 Fax: (03) 5456 4448
COLAC
Parker Bros. Motor Co
224 Murray Street
P: (03) 5231 5533 Fax: (03) 5231 3853
DAYLESFORD
K.R. Little
Vincent Street
P: (03) 5348 2248
DONALD
O.A. Shilton & Sons Pty Ltd
5 Woods Street
P: (03) 5497 1400 Fax: (03) 5497 1505
ECHUCA
Echuca Motors
1 Nothern Highway
P: (03) 5482 1522 Fax: (03) 5480 6215
EUROA
Parker Bros Auto Co. Euroa
37~41 Clifton Street
P:(03) 5795 2702 Fax: (03) 5795 1288
GEELONG
R & B Smith Holden
510 Moorabool Street
P: (03) 5222 2888 Fax: (03) 5221 3114
GEELONG
Winter & Taylor Holden
23 Cavendish Street
P: (03) 5222 1811 Fax: (03) 5221 1873
HAMILTON
Bloods of Hamilton
210 Gray Street
P: (03) 5572 1433 Fax: (03) 5571 1182
HASTINGS
John Collins Holden
2041 Frankston-Flinders Road
P: (03) 5979 4433 Fax: (03) 5975 4720
HOPETOUN
Hopetoun Motors
78 Lascelles Street
P: (03) 5083 3143 Fax: (03) 5083 3290
HORSHAM
Ivan Morrow Motors Pty Ltd
22 O'Callaghans Parade
P: (03) 5382 0185 Fax: (03) 5382 0459
KANIVA
Kaniva Motors
82 Commercial Street
P: (03) 5392 2300 Fax: (03) 5392 2589
KOOWEERUP
G & J Light Mechanical Repairs P/L
Station Road
P: (03) 5997 1325
KORUMBURRA
Peter Dunlevie Holden
42 Commercial Street
P: (03) 5655 1288 Fax: (03) 5655 1839
KYABRAM
D'Alberto Holden
60 McEwen Road
P: (03) 5852 1366 Fax: (03) 5852 1337
KYNETON
Mollison Motors Pty Ltd
167 Mollison Street
P: (03) 5422 3377 Fax: (03) 5422 3501
LEONGATHA
Gleeson Holden
37~43 Bair Street
P: (03) 5662 2361 Fax: (03) 5655 1839
MANSFIELD
Martin's Garage
52~54 Chenery Street
P: (03) 5775 2610 Fax: (03) 5775 1179
MARYBOROUGH
Graham Jacka Holden
35 Nolan Street
P: (03) 5461 1011 Fax: (03) 5461 4789
MILDURA
Stuart & Harrison (Sales) Pty Ltd
24~40A Deakin Avenue
P: (03) 5023 0051 Fax: (03) 5021 3076
MURRAYVILLE
Peers Motors
McKenzie Street
P: (03) 5095 2081 Fax: (03) 5095 2054
NHILL
Ivan Morrow Motors Pty Ltd
71~73 Nelson Street
P: (03) 5391 1333 Fax: (03) 5391 1228
PORTLAND
Reynolds of Portland
Henty Highway
P: (03) 5523 1688 Fax: (03) 5523 6299
ROCHESTER
Bruce Hocking Motors Pty Ltd
85 Lowry Street
P: (03) 5484 1455 Fax: (03) 5484 1140
RUTHERGLEN
Jasper Bros Pty Ltd
62 Main Street
P: (02) 6032 8404 Fax: (02) 6032 8156
SALE
Sam Gould Holden
29~33 Foster Street
P: (03) 5144 3944 Fax: (03) 5144 6289

AUSTRALIAN HOLDEN RETAILERS cont.

SEYMOUR
Neil Beer Holden
49 Emily Street
P: (03) 5792 2777 Fax: (03) 5792 4111
SHEPPARTON
Parker Bros. Auto Co.
182-196 Benalla Road
P: (03) 5822 2666 Fax: (03) 5831 2507
STAWELL
Howden Holden
72~74 Longfield Street
P: (03) 5358 1888 Fax: (03) 5358 3954
SWAN HILL
Swan Hill Holden
94~102 Campbell Street
P: (03) 5033 1800 Fax: (03) 5032 2468
TALLANGATTA
Crispin Motors
21 Towong Street
P: (02) 6071 2414 Fax: (02) 6071 2655
TERANG
W. Christian (Terang) Pty Ltd
6a Baynes Street
P: (03) 5592 1588 Fax: (03) 5592 1481
TIMBOON
Timboon Motors
56 Bailey Street
P: (03) 5598 3007 Fax: (03) 5598 3362
TRARALGON
Colin Watson Holden
Princes Highway
P: (03) 5175 7000 Fax: (03) 5175 0050
UNDERBOOL
A.J. Gloster & Sons
Cotter Street
P: (03) 5094 6291 Fax: (03) 5094 6297
WANGARATTA
Alan Capp (New Cars) Pty Ltd
29 Tone Road
P: (03) 5721 2133 Fax: (03) 5721 4626
WARRACKNABEAL
Amor Motors Aubrey Truck Sales
33 Woolcock Street
P: (03) 5394 1055 Fax: (03) 5398 1904
WARRAGUL
Barry Bourke Warragul
167 Queen Street
P: (03) 5622 0000 Fax: (03) 5622 0333
WARRNAMBOOL
Callaghan Motors Pty Ltd
133~137 Fairy Street
P: (03) 5561 8700 Fax: (03) 5561 8740
WODONGA
McRae White Motors
182 Melbourne Road
P: (02) 6056 2333 Fax: (02) 6024 7899
WONTHAGGI
Wonthaggi Holden
2 Murray Street
P: (03) 5672 1122 Fax: (03) 5672 4141
YARRAM
John Palmer Holden
150 Commercial Road
P: (03) 5182 5122 Fax: (03) 5182 6166
YARRAWONGA
Pigdons
155 Belmore Street
P: (03) 5743 1577 Fax: (03) 5744 1788

Qld. Metropolitan

ASPLEY
Zupps Aspley Pty Ltd
1454 Gympie Road
P: (07) 3246 8000 Fax: (07) 3246 8092
BOOVAL
Ross Llewellyn Holden
246 Ipswitch Road
P: (07) 3282 2922 Fax: (07) 3282 6359
BROWNS PLAINS
Zupps Hillcrest
Cnr Anzac Ave & Corporate Place, Hillcrest,
P: (07) 3802 4000 Fax: (07) 3802 4099
CAPALABA
Oldfield Holden
103 Redland Bay Road
P: (07) 3245 2200 Fax: (07) 3245 2221
HILLCREST
Zupps Hillcrest
Cnr Anzac Avenue and Corporate Place
P: (07) 3802 4000 Fax: (07) 3802 4099
INDOOROOPILLY
Westpoint Holden
440 Moggill Road
P: (07) 3878 0440 Fax: (07) 3375 9735
IPSWICH
Ross Llewellyn Holden
246 Brisbane Road
P: (07) 3282 2922 Fax: (07) 3282 6359
LAIDLEY
Buhse's Garage
5 Spicer Street
P: (07) 5465 1406 Fax: (07) 5465 1706
MOOROOKA
John Sivyer Holden
1060 Ipswich Road
P: (07) 3892 3344 Fax: (07) 3848 8866

AUSTRALIAN HOLDEN RETAILERS cont.

MT. GRAVATT
Zupps Motors Pty Ltd
1310 Logan Road
P: (07) 3877 0000 Fax: (07) 3877 0063
NEWSTEAD
Eagers Holden
95 Breakfast Creek Road
P: (07) 3364 1199 Fax: (07) 3364 1060
PETRIE
Village Motors
1059 Gympie Road
P: (07) 3285 2244 Fax: (07) 3285 1975
REDCLIFFE
Village Holden
425 Elizabeth Avenue
P: (07) 3883 0900 Fax: (07) 3883 2711
SPRINGWOOD
Motorama Holden
3455 Pacific Highway
P: (07) 3804 4888 Fax: (07) 3208 7018
WINDSOR
Eagers Holden
143 Newmarket Road
P: (07) 3357 6711 Fax: (07) 3357 5403
WOOLLOONGABBA
Armstrong Holden
73 Ipswich Road
P: (07) 3891 5522 Fax: (07) 3891 5146
WYNNUM
Doug Barton Holden
200 Tingal Road
P: (07) 3396 7777 Fax: (07) 3393 3593

Qld. Country

ATHERTON
Redding Motors Pty Ltd
2 Cook Street
P: (07) 4091 1344 Fax: (07) 4091 2039
AYR
Honeycombes Sales & Service
213~217 Queen Street
P: (07) 4783 2344 Fax: (07) 4783 9250
BEAUDESERT
Zupps Beaudesert
57 Brisbane Street
P: (07) 5541 2000 Fax: (07) 5541 3368
BILOELA
Andersons Auto City
Dawson Highway
P: (07) 4992 2833 Fax: (07) 4992 3066
BOWEN
McDermott Holden
98 Herbert Street
P: (07) 4786 1430 Fax: (07) 4786 2903
BUNDABERG
Ross Gray Holden
Takalvan Street
P: (07) 4150 1333 Fax: (07) 4150 1318
CABOOLTURE
Beecham Holden
Bribie Island Road
P: (07) 5495 1477 Fax: (07) 5495 2839
CAIRNS
Ireland Holden
227~233 Mulgrave Road
P: (07) 4052 3666 Fax: (07) 4052 3606
CALOUNDRA
Caloundra City Holden
45 Caloundra Road
P: (07) 5491 5522 Fax: (07) 5491 8016
CHARTERS TOWERS
Tony Ireland Holden
57 Mosman Street
P: (07) 4787 1177 Fax: (07) 4787 4858
CHINCHILLA
Ainsworth Motors & Machinery Pty Ltd
55 Chinchilla Street
P: (07) 4662 7286 Fax: (07) 4662 7197
DALBY
Johnson's Holden
36 Drayton Street
P: (07) 4662 2422 Fax: (07) 4662 4311
EMERALD
Emerald Holden
Hospital Road
P: (07) 4983 9888 Fax: (07) 4983 9889
GATTON
Gatton Auto Centre
67 Railway Street
P: (07) 5462 1633 Fax: (07) 5462 1980
GLADSTONE
Andersons Auto City
56 Yarroon Street
P: (07) 4972 1177 Fax: (07) 4972 9141
GOONDIWINDI
Goondiwindi Holden
45 Russell Street
P: (07) 4671 0266 Fax: (07) 4671 0288
GYMPIE
Madills Holden
35 Mellor Street
P: (07) 5480 5500 Fax: (07) 5482 2672
HERVEY BAY
Whitaker Holden
96 Torquay Road
P: (07) 4128 1722
INGHAM
Devietti Holden
99 Lannercost Street
P: (07) 4776 1599 Fax: (07) 4776 3547

AUSTRALIAN HOLDEN RETAILERS cont.

INNISFAIL
I.C. Taylor Pty Ltd
117 Edith Street
P: (07) 4061 1577 Fax: (07) 4061 3963
JULIA CREEK
Julia Creek Motors Pty Ltd
Burke Street
P: (07) 4746 7155 Fax: (07) 4746 7197
KILCOY
Hobart's Garage
58 Mary Street
P: (07) 5497 1204 Fax: (07) 5497 1204
KINGAROY
John Dundas Pty Ltd
79 Kingaroy Street
P: (07) 4162 1722 Fax: (07) 4162 3756
LONGREACH
Longreach Motors
33 Swan Street
P: (07) 4658 1700 Fax: (07) 4658 1857
MACKAY
Pioneer Holden
Cnr Gordon & Wellington Streets
P: (07) 4969 4299 Fax: (07) 4969 4288
MAROOCHYDORE
Sunco Holden
Wises Road
P: (07) 5456 8000 Fax: (07) 5456 8099
MARYBOROUGH
Whitaker Holden
109~111 March Street
P: (07) 4122 2255 Fax: (07) 4122 6222
MOUNT ISA
Bruce Marles Motor City
Marian Street
P: (07) 4743 3044 Fax: (07) 4743 8466
MURGON
Clifton Motors
Macalister Street
P: (07) 4168 1066 Fax: (07) 4168 1947
NAMBOUR
Sunco Holden Nambour
Bruce Highway
P: (07) 5451 2000 Fax: (07) 5451 2099
NANANGO
Nanango Motors Pty Ltd
102 Drayton Street
P: (07) 4163 1108 Fax: (07) 4163 1108
NOOSAVILLE
Madill's
Lot 1 Lionel Donovan Drive
P: (07) 5449 7900 Fax: (07) 5474 0073
PROSERPINE
Crossley Car Sales Whitsunday Pty Ltd
162~164 Main Street
P: (07) 4945 1822 Fax: (07) 4945 2022
ROBINA
Robina Holden
16 Brabham Circuit
P: (07) 5575 0500 Fax: (07) 5562 1072
ROCKHAMPTON
Lawrence's
327 Richardson Road
P: (07) 4930 5111 Fax: (07) 4930 5112
ROMA
Maranoa Multi Agencies
Bowen Street
P: (07) 4622 2900 Fax: (07) 4622 1832
SOUTHPORT
Lockhart Holden
Cnr Nerang Road & Olsen Avenue
P: (07) 5597 2900 Fax: (07) 5597 2542
SPRINGSURE
Springsure Motors
Eclipse Street
P: (07) 4984 1177 Fax: (07) 4984 1361
ST. GEORGE
Halpin Motors
39~41 Grey Street
P: (07) 4625 5466 Fax: (07) 4625 5855
STANTHORPE
Central Motors
42 Maryland Street
P: (07) 4681 2200 Fax: (07) 4681 1479
TOOWOOMBA
Toowoomba Holden
Cnr James & Hume Streets
P: (07) 4690 0900 Fax: (07) 4690 0909
TOWNSVILLE
Tony Ireland Holden
87~91 Charters Towers Road
P: (07) 4726 7777 Fax: (07) 4721 1486
TULLY
Island Coast Holden
Bruce Highway
P: (07) 4068 1288 Fax: (07) 4068 2145
WARWICK
Deighton Motors Pty Ltd
Grafton Street
P: (07) 4661 2266 Fax: (07) 4661 1275

N.T.

ALICE SPRINGS
Peter Kittle Holden
46 Stuart Highway
P: (08) 8952 5500 Fax: (08) 8953 0847
DARWIN
Kerry Holden
21~25 Stuart Highway
P: (08) 8980 8080 Fax: (08) 8980 8081

AUSTRALIAN HOLDEN RETAILERS cont.

KATHERINE
Wyn Holden
Lot 2399 Victoria Highway
P: (08) (08) 8972 2422 Fax: (08) 8971 0571
TENNANT CREEK
Kittles Holden
Paterson Street
P: (08) 8962 2251 Fax: (08) 8962 2527

S.A. Metropolitan

ADELAIDE
City Holden
221 Grenfell Street
P: (08) 8223 7666 Fax: (08) 8359 2588
ELIZABETH
Peter Page Holden
17 Elizabeth Way
P: (08) 8255 1288 Fax: (08) 8255 9260
GAWLER
Steinborner Holden
Cnr Murray & Bridge Sts
P: (08) 8522 4222 Fax: (08) 8522 4898
HILLCREST
City Holden
327~329 Main North East Road
P: (08) 8261 5855 Fax: (08) 8369 0066
MALVERN
Claridge Holden
361~367 Unley Road
P: (08) 8272 1600 Fax: (08) 8373 0057
PORT ADELAIDE
Smiths of Port Adelaide
271 Commercial Road
P: (08) 8400 7100 Fax: (08) 8400 7155
PROSPECT
Metro Holden
84~88 Main North Road
P: (08) 8343 5000 Fax: (08) 8344 9670
REYNELLA
Southgate Holden
49~59 Main South Road
P: (08) 8381 9555 Fax: (08) 8381 6274
ROSE PARK
City Holden
14 Kensington Road
P: (08) 8334 4666 Fax: (08) 8334 4610
SOMERTON PARK
Hamilton Holden
278~288 Brighton Road
P: (08) 8179 4300 Fax: (08) 8358 3957
THEBARTON
Metro Holden
1 Port Road
P: (08) 8354 9555 Fax: (08) 8443 6855
VALLEY VIEW
Plaza Holden
817~839 North East Road
P: (08) 8263 4922 Fax: (08) 8265 5200

S.A. Country

BALAKLAVA
Balaklava Motors
4 Wallace Street
P: (08) 8862 1030 Fax: (08) 8862 2000
BERRI
Rosenthal Bros Pty Ltd
Vaughan Terrace
P: (08) 8582 3644 Fax: (08) 8582 3515
BORDERTOWN
Farmers Centre
South Terrace
P: (08) 8752 0266 Fax: (08) 8752 0233
CEDUNA
Beck Motors Pty Ltd
Poynton Street
P: (08) 8625 2616 Fax: (08) 8625 3201
CLARE
Mid North Motor Company Pty Ltd
7 Old North Road
P: (08) 8842 2200 Fax: (08) 8842 2886
CLEVE
Pringles Ag. Plus
Rudall Road
P: (08) 8628 2150 Fax: (08) 8628 2537
CRYSTAL BROOK
Crouch Rural Pty Ltd
26 Brandis Street
P: (08) 8636 2257 Fax: (08) 8636 2088
KADINA
J.H. Rosewarne Pty Ltd
Graves Street
P: (08) 8821 1111 Fax: (08) 8821 1686
KEITH
Farmers Centre
McBain Street
P: (08) 8755 3222 Fax: (08) 8755 3211
KINGSTON
Lecornu's Service Garage
Agnes Street
P: (08) 8767 2424 Fax: (08) 8767 2533
LOXTON
Flight Motors Pty Ltd
Bookpurnong Terrace
P: (08) 8584 7277 Fax: (08) 8584 5937
MINLATON
Southway
9 Fifth Street
P: (08) 8853 2322 Fax: (08) 8853 2451

AUSTRALIAN HOLDEN RETAILERS cont.

MENINGIE
Peter Hood Holden
Cnr Princes Highway & Coonalpyn Road
P: (08) 8575 1109 Fax: (08) 8575 1537
MT. BARKER
Gilbert Motors
57 Adelaide Road
P: (08) 8391 1500 Fax: (08) 8398 2124
MT. GAMBIER
O.G. Roberts & Co
Jubilee Highway West
P: (08) 8724 1111 Fax: (08) 8724 1100
MURRAY BRIDGE
Dutton Motors Pty Ltd
7 Adelaide Road
P: (08) 8532 1999 Fax: (08) 8531 0599
NARACOORTE
Kingcraig Motors Pty Ltd
158~164 Smith Street
P: (08) 8762 1555 Fax: (08) 8762 1806
PORT AUGUSTA
Augusta Motor Company Pty Ltd
38 Stirling Road
P: (08) 8641 0488 Fax: (08) 8642 4300
PORT LINCOLN
City Motors
King Street
P: (08) 8682 1100 Fax: (08) 8682 4734
PORT PIRIE
Spencer Holden
50 Ellen Street
P: (08) 8632 3888 Fax: (08) 8632 6405
RENMARK
Rosenthal Motors Pty Ltd
Ral Ral Avenue
P: (08) 8586 6626 Fax: (08) 8586 4040
TANUNDA
Hage & Co Pty Ltd
50 Murray Street
P: (08) 8563 2123 Fax: (08) 8563 3488
VICTOR HARBOR
Southern Motors Holden
5 Victoria Street
P: (08) 8552 1255 Fax: (08) 8552 2788
WAIKERIE
Riverside Holden
6 Crush Terrace
P: (08) 8541 2900 Fax: (08) 8541 3325
WHYALLA
McLeods Whyalla Motor Company
64 Essington Lewis Avenue
P: (08) 8645 7388 Fax: (08) 8645 5512
YORKETOWN
Southway Holden
Minalaton Road
P: (08) 8852 1322 Fax: (08) 8852 1271

W.A. Metropolitan

CANNINGTON
Brian Gardner Holden
1308~1324 Albany Hwy
P: (08) 9356 9000 Fax: (08) 9458 9144
FREMANTLE
Shacks Holden
64 Queen Victoria Street
P: (08) 9432 9432 Fax: (08) 9432 9456
GOSNELLS
Gibbons Holden
2325 Albany Highway
P: (08) 9398 2211 Fax: (08) 9398 5683
MELVILLE
Melville Holden
532~540 Canning Highway
P: (08) 9333 5333 Fax: (08) 9333 5300
MIDLAND
Goldy Holden
161 Great Eastern Highway
P: (08) 9274 8000 Fax: (08) 9274 6042
MORLEY
Metro Motors Holden
212 Walter Road West
P: (08) 9449 3522 Fax: (08) 9449 3596
OSBORNE PARK
North City Holden
Cnr Scarborough Beach Rd & Harborne St
P: (08) 9273 2222 Fax: (08) 9273 2220
PERTH
City Motors
505 Newcastle Street
P: (08) 9422 7777 Fax: (08) 9422 7630
ROCKINGHAM
Rockingham Holden
20 Smeaton Way
P: (08) 9550 9550 Fax: (08) 9550 9599
VICTORIA PARK
Youngs Holden
529 Albany Highway
P: (08) 9449 9449 Fax: (08) 9449 9494
WANNEROO
Phoenix Holden
5 Berriman Drive
P: (08) 9409 9200 Fax: (08) 9309 2140

W.A. Country

ALBANY
Albany City Holden
92~98 Earl Street
P: (08) 9842 8000 Fax: (08) 9841 8623

AUSTRALIAN HOLDEN RETAILERS cont.

BRIDGETOWN
Kordics Bridgetown
183 Hampton Street
P: (08) 9761 1377 Fax: (08) 9761 2151

BROOKTON
Coote Motors
1 Robinson Road
P: (08) 9642 1108 Fax: (08) 9642 1003

BROOME
Norwest Holden
7 McPherson Street
P: (08) 9192 1277 Fax: (08) 9193 5249

BUNBURY
Bunbury Holden
3 Sandridge Road
P: (08) 9791 3899 Fax: (08) 9791 2990

BUSSELTON
Fennessy's
4~8 Bussel Hwy
P: (08) 9752 1577 Fax: (08) 9752 4080

CARNAMAH
T & H Walton Stores Pty Ltd
Robertson Street
P: (08) 9951 1130 Fax: (08) 9951 1082

CARNARVON
North West Autos
229 Robinson Street
P: (08) 9941 1159 Fax: (08) 9941 1363

COLLIE
Station Motors
84 Throssell Street
P: (08) 9734 1855 Fax: (08) 9734 1913

ESPERANCE
Dempster Holden
Norseman Road
P: (08) 9071 1155 Fax: (08) 9071 3799

GERALDTON
Young Motors
34 Cathedral Avenue
P: (08) 9921 1088 Fax: (08) 9964 1157

HARVEY
Stockman Holden
111 Uduc Road
P: (08) 9729 3333 Fax: (08) 9729 1140

KALGOORLIE
Golden City Holden
114 Boulder Road
P: (08) 9021 1699 Fax: (08) 9021 5737

KARRATHA
Moxham Motors
Lot 4551 Balmoral Road
P: (08) 9144 1225 Fax: (08) 9144 1258

KATANNING
Edwards Holden
159 Clive Street
P: (08) 9821 2388 Fax: (08) 9821 2429

KELLERBERRIN
Dowding Motors
1 Mitchell Street
P: (08) 9045 4141 Fax: (08) 9045 4466

KUNUNURRA
Argyle Holden
Lot 231 Bloodwood Drive
P: (08) 9168 2236 Fax: (08) 9169 1124

MANDURAH
Mandurah Holden
53 Pinjarra Rd
P: (08) 9535 8777 Fax: (08) 9535 8822

MANJIMUP
Manjimup Automotive Services
Pritchard Street
P: (08) 9771 1388 Fax: (08) 9777 1214

MOORA
Frank Lewis Holden
92 Gardiner Street
P: (08) 9651 1408 Fax: (08) 9651 1724

NARROGIN
Edwards Motors
126 Ferderal Street
P: (08) 9881 5555 Fax: (08) 9881 5500

NORTHAM
Withnell Motors
58 Fitzgerald Street
P: (08) 9622 5073 Fax: (08) 9622 3664

WAGIN
Edwards Motors
3 Ranford Street
P: (08) 9861 2666 Fax: (08) 9861 2622

NEW ZEALAND HOLDEN RETAILERS

Auckland Metropolitan

GLENFIELD
Giltrap Holden
150 Wairau Road
P: (09) 444 8114 Fax: (09) 444 8008

HENDERSON
West City Holden
435 Great North Road
P: (09) 836 0097 Fax: (09) 836 6612

MANUKAU
Davie Motors Limited
58 Cavendish Drive
P: (09) 262 1012 Fax: (09) 262 1011

NEWMARKET
Schofield & Co. Limited
50 Great South Road
P: (09) 520 6369 Fax: (09) 524 1500

PANMURE
Moyes Motor Group Limited
500-510 Ellerslie/Panmure Highway
P: (09) 527 1200 Fax: (09) 527 8314

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ALEXANDRA
Currie Motors
65 Centennial Avenue
P: (03) 448 6989 Fax: (03) 448 9384

AMBERLEY
Arthur Burke Limited
Markham Street
P: (03) 314 8121 Fax: (03) 314 8281

ASHBURTON
Smallbone Brothers Limited
Cnr. Burnett & Cass Streets
P: (03) 307 9028 Fax: (03) 307 9212

BLENHEIM
Wadsco Motors Limited
55-59 Scott Street
P: (03) 578 5199 Fax: (03) 578 2572

CHRISTCHURCH
Blackwell Motors Limited
Cnr. Cashell/Madras Streets
P: (03) 379 5500 Fax: (03) 379 5666

DUNEDIN
Cooke Howlison Limited
484 Andersons Bay Road
P: (03) 456 0570 Fax: (03) 455 5668

DARGAVILLE
Marcel Motors Limited
34 Victoria Street
P: (09) 439 7399 Fax: (09) 439 7399

GISBORNE
Enterprise Cars (1992) Limited
323 Gladstone Street
P: (06) 867 8368 Fax: (06) 867 1280

GRACEFIELD
Cable Price (NZ) Ltd
3 Tunnel Grove
P: (04) 568 4289 Fax: (04) 568 9699

HAMILTON
Ebbett Waikato Limited
204-208 Anglesea Street
P: (07) 838 0949 Fax: (07) 838 3380

HASTINGS
Deakin Motors
Omahu Road
P: (06) 879 7176 Fax: (06) 879 7698

HASTINGS
Karamu Holden
Cnr. Karamu Road & Albert Street
P: (06) 876 6700 Fax: (06) 876 6664

HAWERA
Moller Johnson Motors (Hawera) Limited
39-49 Regent Street
P: (06) 278 7166 Fax: (06) 278 5054

INVERCARGILL
GWD-Russells Limited
18-24 Yarrow Street
P: (03) 218 2149 Fax: (03) 218 3309

KAIKOHE
Bay Motors Limited
Wihongi Street
P: (09) 401 1860 Fax: (09) 401 0883

KAITAIA
Jim Crene Motors Limited
Melba Street
P: (09) 408 1310 Fax: (09) 408 1311

LEVIN
Horowhenua Motor Co. Limited
1-11 Exeter Street
P: (06) 368 7169 Fax: (06) 368 8536

LOWER HUTT
Brendan Foot Motors Limited
16-20 Railway Avenue
P: (04) 587 0005 Fax: (04) 566 2311

MASTERTON
Wagg & Harcombe Limited
87-93 Dixon Street
P: (06) 377 5169 Fax: (06) 378 8840

MATAMATA
Matamata Motor Group Limited
2 Arawa Street
P: (07) 888 7059 Fax: (07) 888 5709

NEW ZEALAND HOLDEN RETAILERS cont.

MORRINSVILLE
Nicholson United Autos
328 Thames Street
P: (07) 889 7042 Fax: (07) 889 3529

MOUNT MAUNGANUI
Transport Commercial (Tauranga) 1997 Ltd
116 Hewletts Road
P: (07) 574 5393 Fax: (07) 575 0403

NAPIER
Karamu Holden
Cnr Wellesley Rd & Thakeray St
P: (06) 874 3033 Fax: (06) 834 1454

NELSON
Nelson Bays Holden
2 Selwyn Place
P: (03) 545 7222 Fax: (03) 545 6057

NEW PLYMOUTH
Auto City
86 Molesworth Street
P: (06) 758 0919 Fax: (06) 758 5330

OAMARU
North Otago Motor Group Limited
24-30 Severn Street
P: (03) 434 5099 Fax: (03) 434 9983

OTOROHANGA
Pat Prescott Limited
205 Maniapoto Street
P: (07) 873 7119 Fax: (07) 873 7156

PAEROA
Linn Motors Limited
10-12 Belmont Road
P: (07) 862 8715 Fax: (07) 862 8711

PAHIATUA
Jones Motors Limited
30-34 Main Street
P: (06) 376 7524 Fax: (06) 376 7192

PALMERSTON NORTH
Robertson Motors
200 Rangitikei Street
P: (06) 358 1062 Fax: (06) 359 0303

PARAPARAUMU
Guy Weaver's Auto Village
2-6 Ihakara Street
P: (04) 298 8089 Fax: (04) 298 7186

PUKEKOHE
Counties Motorcourt Limited
Cnr. Edinburgh & Tobin Streets
P: (09) 238 3259 Fax: (09) 238 3298

ROTORUA
Shorland Slater Limited
79 Old Taupo Road
P: (07) 348 3179 Fax: (07) 347 1503

STRATFORD
Ansford Johnson Limited
369 Broadway
P: (06) 765 6119 Fax: (06) 765 7410

TAUPO
Taupo Holden
50 Ruapehu Street
P: (07) 378 4130 Fax: (07) 378 0357

TAUMARANUI
Turaki Motors Limited
Hakiaha Street
P: (07) 895 7009 Fax: (07) 895 8909

TAURANGA
Ebbett Tauranga
Cnr. Wharf Street & Cameron Road
P: (07) 578 2843 Fax: (07) 578 6044

TE AROHA
Summit Motor Co. Limited
Kenrick Street
P: (07) 884 8174 Fax: (07) 884 8133

TE AWAMUTU
Rosetown Motors Limited
Cnr. Churchill & Mahoe Streets
P: (07) 871 5143 Fax: (07) 871 5045

TE PUKE
Bob Batchelor Motors Limited
Jellicoe Street
P: (07) 573 9781 Fax: (07) 573 6057

THAMES
Linn Motors
429 Pollen Street
P: (07) 868 9591 Fax: (07) 868 9595

TIMARU
Hervey Motors Limited
6 Sefton Street
P: (03) 684 7179 Fax: (03) 684 7176

UPPER HUTT
Twin Lakes Motor Company
769 Fergusson Drive
P: (04) 528 5609 Fax: (04) 527 8390

WANGANUI
Bob Burgess Motors Limited
1-5 Purnell Street
P: (06) 345 5588 Fax: (06) 345 5584

WELLINGTON
Williams & Adams
15-27 Abel Smith Street
P: (04) 801 6777 Fax: (04) 385 7437

WHAKATANE
Harts Limited
1 Bracken Street
P: (07) 308 6334 Fax: (07) 307 1536

NEW ZEALAND HOLDEN RETAILERS cont.

WHANGAREI
Mark Cromie Holden
5-13 Hannah Street
P: (09) 438 3199 Fax: (09) 438 3615

NEW ZEALAND HOLDEN RETAILERS cont.

CHAPTER 10

Tow and Load

Page

10-2 Loading the vehicle

10-4 Towing

LOADING THE VEHICLE

Overloading is a safety hazard and could also shorten the life of your vehicle or its parts. The recommended carrying capacity of your vehicle is 600 kg, including 7 occupants and luggage.

If this vehicle is loaded above the recommended carrying capacity, then you should ensure that the maximum rear axle load and the Gross Vehicle Mass are not exceeded.

Note: The vehicle weights listed are estimates based on pre-production vehicles and although correct at the time of printing, are subject to change. When the actual weight of a particular vehicle is needed, it is recommended that the vehicle be weighed on a suitable weighbridge.

Kerb weight

The kerb weights shown below are for the weight of an unloaded vehicle with a full tank of fuel.

1465 kg = kerb weight with manual transmission

1489 kg = kerb weight with automatic transmission

Gross Vehicle Mass (GVM)

The GVM (weight) is the maximum that a vehicle is allowed to weigh when fully loaded. This must include any luggage, passengers, roof rack load and a full tank of fuel. When towing, the weight on the tow ball must also be included. (Refer to Towing, in this Chapter.) The GVM for your vehicle is:

1980 kg = with manual transmission

2005 kg = with automatic transmission

Maximum rear axle load

Do not exceed the maximum axle load. This includes the weight of any options or accessories fitted to your vehicle.

The maximum rear axle load for your vehicle is 1055 kg.

Remember to take the tow ball load and roof rack load into account when determining the rear axle load. If unsure, the vehicle should be weighed at a weighbridge.

LOADING THE VEHICLE cont.

Roof racks

For safety reasons and to avoid damaging the roof, do not exceed the maximum allowable roof load.

WARNING:

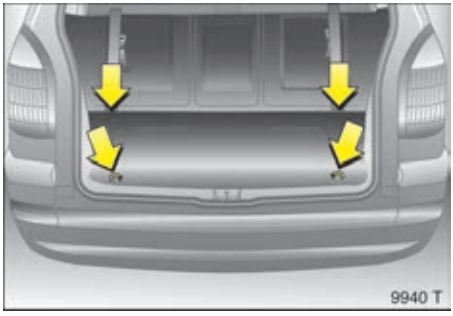
The maximum allowable roof load is 75 kg (including the roof rack weight).

Roof rack loads alter the handling of a vehicle due to the change in the centre of gravity. When carrying loads on the roof rack, avoid abrupt swerving or sharp steering. The load should be evenly distributed and you should not drive faster than 120 km/h. The weight on the roof must be included when working out the vehicle weights. (Treat the roof rack load as luggage.)

Lashing eyes

Do not leave loose articles or luggage in the passenger compartment. Whenever possible, stow loads in the luggage compartment.

Four lashing eyes are provided in the luggage compartment to tie down loads.



Gas cylinders

WARNING:

Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported that a purpose built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some states.

TOWING

Your vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a caravan or trailer. Before attempting any towing, ensure that the correct equipment is fitted.

Towing capacities:

1000 kg = Trailer brakes fitted

600 kg = Trailer brakes not fitted

In higher elevations and / or mountainous terrain, the maximum towing and loading limits should be reduced.

Note: Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of such equipment may void your New Vehicle Warranty to the extent that Holden considers the non-recommended equipment affects the specifications or quality of your Holden vehicle.

Tow ball load

This is the weight on the tow ball when the packed trailer / caravan is hitched.

WARNING:

The tow ball load must be within the following range:

- **Loaded trailer weight up to 625 kg – at least 4% of the loaded trailer weight but not more than 100 kg**
- **Loaded trailer weight over 625 kg – at least 25 kg but not more than 100 kg.**

The tow ball load can be adjusted by adjusting the position of the contents of the trailer / caravan. Move the heavier objects further from the tow ball to decrease the tow ball load and closer to the tow ball to increase the load.

If the tow ball load is too light (i.e. less than 4% of the loaded trailer weight) or too heavy (i.e. greater than 100 kg), the steering and handling of the vehicle will be greatly impaired. However, it is desirable to aim for the maximum, rather than the minimum tow ball load.

When measuring the tow ball load, make sure that the drawbar of the loaded trailer / caravan is at the same height as it will be when the trailer / caravan is mounted on the vehicle. This is particularly important for trailer / caravans with tandem axles.

When towing, you must take into account the additional load the trailer puts on the vehicle. Particular attention must be given to how the trailer changes the loads at the vehicle's front and rear axles.

When the vehicle and trailer are at or near full load, it may be necessary to use a public weighbridge to check that the vehicle, trailer and towing equipment capacities have not been exceeded.

TOWING cont.

Safe towing tips

Your vehicle will handle differently when towing. It is a good idea to make a couple of short distance trips with the trailer / caravan before you set off on a long trip.

Have your vehicle correctly maintained and serviced. Refer to Chapter 12.

Have your trailer / caravan maintained and serviced with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.

You should have an extended-arm mirror on both sides of your vehicle.

The headlights may need adjusting when towing.

Use a lower gear rather than your brakes when descending steep hills.

If your trailer / caravan moves off the road behind you, allow the left wheels of your vehicle to move off as well. When it is safe to do so, carefully steer back onto the road. A sudden attempt to steer back on to the road could make you swerve dangerously.

Towing precautions

- When heavily loading your vehicle or when towing, your tyres should be inflated to the maximum recommended pressure. Refer to Chapter 4 for information about driving with increased vehicle loads, Chapter 7 for information about tyre pressure and Chapter 8 for the tyre placard location.
- Loads should be secured so that they cannot slip and should be placed in the centre of the trailer / caravan if possible, that is, above the axle.
- Trailer brakes are required on trailers / caravans weighing over 600 kg when loaded.
- The brakes on the trailer / caravan must be designed to cope with the braking requirements of that trailer / caravan under all towing conditions without adversely affecting the brakes on the vehicle.
- Make sure that you have enough room when cornering and avoid sudden manoeuvres.
- In the case of a trailer / caravan with low directional stability, it is advisable to use a stabiliser to dampen rolling motion.
- The cooling fan is driven electrically and so is not dependant on engine speed. At high engine speeds, a lot of heat is produced and at low engine speeds correspondingly less heat is produced. For this reason, when driving uphill do not shift down into a lower gear (which will increase engine speed) whenever the vehicle can still climb the hill in the higher gear.
- Whenever a towbar is removed, be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the tow bar tongue when it is not required for towing.

CHAPTER 11

Cleaning

Page

11-2 Interior cleaning

11-4 Caring for paint

11-6 Paint polishing, wheels and tyres

11-7 Exterior glass cleaning

11-8 Cleaning products

INTERIOR CLEANING

WARNING:

Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, gasoline or naphtha for any cleaning purpose. Be sure the vehicle is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.

Care and cleaning of upholstery

Dust and dirt accumulates on upholstery and should be removed with a vacuum cleaner every few weeks; more often with constant driving.

Before attempting to remove spots and stains, it is necessary to determine:

- the type of fabric
- the nature and age of the stain
- the effect of the stain removal agent upon the colour, structure and general appearance of the upholstery.

Remove stains as soon as possible. If they are allowed to remain on the fabric for any length of time, they very often become oxidised or set and removal becomes difficult, if not impossible.

Cleaning Vinyl (PVC) coated fabrics

PVC-coated fabrics are used for seating and auxiliary trimming. Fabric grades vary according to their function. PVC fabrics are generally made by coating fabric with synthetic resins. Care of PVC fabric is relatively simple, but important. Wipe over the surface with a dry cloth during the regular cleaning of the vehicle.

Should dirt accumulate and become embedded in the material pattern, the following procedure is recommended.

1. Using lukewarm water and soap or Holden Velour Fabric and Vinyl Cleaner, work up thick suds on a piece of cheesecloth and apply to the surface. A soft bristle brush can be used to remove stubborn stains or dirt embedded in the grain of the material.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

Cleaning leather trim (if fitted)

To remove surface dust and grit, regularly wipe the leather with 'Softly' (or a similar mild detergent) diluted in warm water using a soft cloth or sponge.

Clean leather every 3 months with Holden Leather Cleaner or a mild saddle soap and a damp soft cloth to remove in-ground dirt which is not visible. Allow leather to dry naturally and apply Holden Leather Protector or a colourless bee's wax dressing.

To revitalise the leather upholstery use Holden Leather Revitaliser.

INTERIOR CLEANING cont.

Cleaning cloth trim

To clean seats upholstered with cloth, observe the following instructions.

- Remove loose dirt and dust with a vacuum cleaner or soft brush.
- Do not use a whisk broom or a coarse hair brush.
- If normal soiling takes place, it is recommended that the fabric be cleaned with Holden Velour Fabric and Vinyl Cleaner.

Vehicles with airbags

Use only a dry cloth or mild cleaner to clean the steering wheel and instrument panel. Do not use any aggressive cleaning agents.

Cleaning carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet requires no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

Cleaning seat belts

Clean seat belts with a mild non-abrasive soap and lukewarm water. After washing, thoroughly sponge the soap out of the belts.

WARNING:

Do not bleach or dye seat belts as this can severely weaken them.

Cleaning interior glass

Clean the interior glass area of the vehicle with Holden Glass Cleaner and a clean soft cloth. Take care not to damage the demister when cleaning inside the rear window.

Never use abrasive cleaners on any vehicle glass, as they may cause scratches.

CARING FOR PAINT

To help preserve your vehicle's new finish, give special attention to treating those conditions that can damage the paint. Conditions include:

Road bloom: Oils, dirt, exhaust and other pollutants may combine to affect the paint finish if they are allowed to build up over a long period of time.

Etching: Tree sap, bird droppings, salt water and other natural deposits can leave etching or scarring if allowed to stay on the paint.

Pitting: Tar spots and some industrial fallout can react chemically and may cause pitting to the surface of the paint.

Paint inspection

Regularly inspect the vehicle for scratch marks, cracks or damaged areas, all of which could develop rust. Repair any deep scratches, cracks or breakdown in the finish immediately.

Take care to ensure any rust is repaired immediately otherwise rust 'creep' will extend beyond the damaged area. This occurs particularly in tropical or coastal areas, where the moist or salt-laden air accelerates rusting.

The paint finish of the vehicle gives a very high degree of protection against the weather, but be aware that wear and deterioration occurs when the vehicle is exposed to the elements for prolonged periods.

Park the vehicle in a garage whenever possible.

To prevent damage of the paint surface, remove foreign matter immediately. Foreign matter such as bird droppings should be removed within 24 hours due to the acidity.

Washing your vehicle

The easiest way to keep the paint looking as new is to keep it clean. A wash once a week will keep your vehicle in good condition. However, it must be washed correctly.

Note:

- Never use an automatic wash that requires anything touching the paint (other than water).
- Wash your vehicle once a week to remove build up of any grime on the paint.
- Never wash your vehicle in direct sunlight; find a shady spot to wash your vehicle.

1. Wet the vehicle thoroughly from top to bottom with plenty of cold water (in accordance with current water restrictions, if any). This removes any grit or other loose particles and substances. Do not use a sponge or cloth at this stage.
2. Fill a bucket with lukewarm water and add no more than 2 capsful of gentle detergent. Do not use hot water, strong soap or chemical detergents.
3. To remove bird droppings, soak the area with a wet sponge for several minutes before washing off. If this does not work, use a solution of 1 litre of water and 110 grams of dissolved baking soda (bicarbonate of soda). Rinse with clean water.
4. Starting with the roof, use a clean sponge to clean a small section at a time. Do not allow liquid to dry before rinsing it off with clean water. When you have completed each section, rinse the whole vehicle again with cold water.
5. Dry the clean vehicle thoroughly with a good quality chamois.

CARING FOR PAINT cont.

WARNING:

Take care when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Removing stains, such as grease, oil and tar spots

Washing your vehicle regularly ensures most harmful substances deposited on the paint are removed before they can cause permanent damage. However, some substances are difficult to remove. If you notice stains on the paint, ensure you remove them at the earliest possible opportunity.

Grease, oil, and even fresh tar can be removed from the paint with a little kerosene or turpentine. As a precaution against staining, wash and polish the area as soon as possible after the stain has been removed.

A rubbing or cutting compound can be used after a normal wash. Do not do this on a regular basis as it removes paint.

WARNING:

- **Some chemical cleaners used for removing road oils and tars from painted surfaces are detrimental to automotive paint.**
- **If petrol is spilt on the paint when refilling, flush it off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.**
- **Do not use petrol to clean any painted or plastic surfaces.**

Ventilation system intake

The intake area between the bonnet and windscreen may collect leaves, which impairs air flow into the vehicle.

Clear this area of debris whenever you wash your vehicle.

Under vehicle washing

Your vehicle has a factory-applied PVC undercoating in the wheel arches (including longitudinal members) which provides permanent protection and needs no special maintenance.

The surfaces of the vehicle underside not covered by PVC are provided with a durable protective wax coating. Once a year, preferably before the start of the cold season the wax coating and PVC coating should be checked and if necessary, restored to perfect condition.

Commercial bitumen and rubber materials can damage PVC coating. Have all work on the underbody performed by a Holden Retailer, as it requires knowledge of the specified materials and experience concerning their application.

Wash the underbody following the end of the cold weather season to remove any dirt adhering to the underbody, since this may also contain salt.

PAINT POLISHING, WHEELS AND TYRES

Polishing

Under normal circumstances the paint does not need polishing to retain its shine; a weekly wash is sufficient. However, the use of a Polymer Glaze approximately every 3 months reduces the effects of road bloom by removing natural contaminants that can build up on the paint.

Note: Do not attempt to apply a polish without first washing the vehicle to remove loose grit, surface dirt, dust and grease.

Tyres

Sponging with cold water is sufficient for normal tyre cleaning. Oil and grease should be removed with soap and water or detergent. For tar or other substances, use a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder. Thoroughly rinse the tyres. Do not use petrol to clean tyres.

Original or 'new' tyre look can be restored using Holden Tyre and Bumper Shine.

Alloy wheels

To preserve the original appearance of alloy wheels, keep them clean and free from road dirt. Use Holden Wheel Cleaner for cleaning alloy wheels. Do not use abrasive cleaners on alloy wheels.

EXTERIOR GLASS CLEANING

Glass cleaning

Avoid scratching the glass. If the glass is cleaned at the same time as the rest of the vehicle, particles of grit may cause fine scratches. Flush off any mud on the glass when washing the body, but leave the final cleaning and polishing until afterwards.

Use Holden Glass Cleaner and wash each section of the glass in turn, making sure that the water, its container and the sponge are clean and free from grit. Old linen cloth is better than new material for polishing glass.

Windscreen

Always keep the windscreen clean so the wiper blades are as effective as possible. Old wiper blades can cause scratches and should be regularly inspected and replaced if necessary.

Never use abrasive cleaners to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge wipe it with a soft, lint free cloth or chamois.

It is recommended that Holden Optikleen be added to the windscreen washer reservoir.

Wiper blades

Oil and road scum thrown up on the windscreen will cause smearing when the wipers are switched on. Many owners do not clean the wiper blades, despite cleaning the windscreen. Consequently, the smearing of the glass reappears as soon as the wiper blades are next used, as dirt accumulates in the blades.

Clean the blades by lifting them off the windscreen and cleaning with Holden Optikleen and a clean cloth.

Note: Do not operate the wiper blades by hand as this may damage the wiper drive mechanism.

If using the wiper blades to clean dust and dirt from the windscreen in dry conditions, always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Should the wiper blades freeze to the windscreen, lift them off by hand before switching on the wipers.

CLEANING PRODUCTS

PART NUMBER	SIZE	DESCRIPTION	USAGE
92145132	237 ml	Quick and Easy Speed Finish	Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage.
92145418	437 ml	Quick and Easy Speed Finish	Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage.
92145130	237 ml	All Purpose Cleaner	Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets, etc.
92145416	437 ml	All Purpose Cleaner	Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets, etc.
92145133	237 ml	Glass Cleaner	Cleans all glass surfaces.
92145419	437 ml	Glass Cleaner	Cleans all glass surfaces.
92140005	500 ml	Optikleen	Windscreen washer solvent.
92140004	5 ml	Optikleen Sachet	Windscreen washer solvent; 1 sachett per washer bottle refill.
92145129	237 ml	Hi Suds Car Wash	Cleans vehicle exterior.
92145415	437 ml	Hi Suds Car Wash	Cleans vehicle exterior.
92145131	237 ml	Vinyl and Trim Dressing	Seals and protects vinyl upholstery and plastic trim.
92145417	437 ml	Vinyl and Trim Dressing	Seals and protects vinyl upholstery and plastic trim.
92145140	120 ml	Leather Revitaliser	Revitalises the leather upholstery.
92145141	120 ml	Leather Cleaner	Cleans the leather upholstery.
92145142	120 ml	Leather Protector	Protects the leather upholstery.
92145143	1 Kit	Leather Care Kit	Contains leather revitaliser, cleaner and protector.
92145135		Chamois	Cloth for wiping off excess water from the vehicle's exterior after washing and rinsing.
92145134		Handle Grip Sponge	Sponge for washing the vehicle.
92145136		Microfibre Glass Cleaning Cloth	Cloth for cleaning all glass surfaces.
92145137		Microfibe General Purpose Cleaning / Polishing Cloth	Cloth for general purpose cleaning / polishing.

Notes

CHAPTER 12

Servicing

Page

12-2 Service intervals

12-3 Service reminder light

12-4 Additional service requirements

12-6 Maintenance schedule

12-8 Service times

12-9 Service coupons

SERVICE INTERVALS

When it comes to service, remember that your Holden Retailer has the trained personnel and specialised equipment to correctly service your vehicle. Your Retailer invites you to return for all your service needs both during and after the New Vehicle Warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians at Holden Retail Premises.

Therefore, it is in the owner's interest that the following services are performed at the specified distance or time duration (whichever occurs first).

1 500 km - 1 month inspection
15 000 km - 1 year
30 000 km - 2 years
45 000 km - 3 years
60 000 km - 4 years
75 000 km - 5 years
90 000 km - 6 years
105 000 km - 7 years
120 000 km - 8 years
135 000 km - 9 years
150 000 km - 10 years
165 000 km - 11 years
180 000 km - 12 years

The 1 month (1500 km) inspection will be performed without cost for labour by the Selling Retailer.

This service may be carried out by another Holden Retailer provided you have a letter of introduction from the Selling Retailer.

The Selling Retailer will supply the necessary letter of introduction upon request.

The services shown in this schedule between 15 000 km and 180 000 km are to be performed after 180 000 km at the same intervals.

Note: All maintenance services as listed in this Handbook and replacement of service items are the responsibility of the owner and as such are not considered, under the provisions of the New Vehicle Warranty, to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transmission, clutch, park brake or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Damage caused by failure to have proper maintenance services carried out by an authorised Holden Retailer or authorised Service Outlet or in accordance with Holden's specifications, may void your New Vehicle Warranty. It is strongly recommended that you read the New Vehicle Warranty in Chapter 9 so that you are aware of your New Vehicle Warranty exclusions.

Service coupons are provided further on in this chapter. When each service is performed, the coupon is removed so that the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should check that the service has been validated by the Retailer stamping and signing the coupon stub. This is important as it will not only assist in the determination of warranty claims, but will enhance the value of the vehicle when selling.

SERVICE REMINDER LIGHT

The window in the speedometer displays the odometer, tripmeter and the service reminder.

The service reminder displays 'InSP' (inspection required) for a few seconds when the ignition is turned on and the next service interval is due. The service should be performed within 500 km or 1 week.

Note: The reminder is not designed to display for the 1500 km / 1 month service.

The service interval display takes no account of the time elapsed while the battery is disconnected.

Reset

The service reminder is reset as part of the service or it can be reset by the driver as follows:

1. Turn the ignition off.
2. Press and hold the reset button and turn the ignition on.
3. Continue to press the reset button until the display changes to '- - - -' (approximately 2 seconds).
4. Release the reset button.

The odometer and tripmeter display.

ADDITIONAL SERVICE REQUIREMENTS

If your vehicle operates under any of the conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

Note: The extra services listed below need only be used if your vehicle operates continuously under the conditions specified.

If you operate the vehicle under any of these conditions on a one off basis, for example a holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1000 km under any of these conditions, then Holden recommends additional services.

Change automatic transmission fluid @ 60,000 km or 4 years (whichever comes first)	A	B	C
Replace engine oil and filter @ 5,000 km or 3 months (whichever comes first)	A		
Air cleaner element - replace @ 30,000 km or 2 years (whichever comes first)			C
Pollen filter - replace @ 15,000 km or 1 year (whichever comes first)			C
Fuel filter - replace @ 30,000 km or 2 years (whichever comes first)			C

A = Stop-start driving, excessive idling or low speed operation as experienced in inner city driving, for example, taxi, police, door to door deliveries.

B = Caravan or trailer towing.

C = Extreme climates, such as high air pollution, airborne sand or dust, high altitude or major fluctuations in temperature.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Retailer.

ADDITIONAL SERVICE REQUIREMENTS cont.

SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS Date ..... km ..... Items performed .... Servicing Retailer	SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS Date ..... km ..... Items performed .... Servicing Retailer .....
SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS Date ..... km ..... Items performed .... Servicing Retailer	SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS Date ..... km ..... Items performed .... Servicing Retailer .....
SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS Date ..... km ..... Items performed .... Servicing Retailer	SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS Date ..... km ..... Items performed .... Servicing Retailer .....

MAINTENANCE SCHEDULE

Use odometer reading or years, whichever occurs first	x 1000 km	1.5	15	30	45	60	75	90	105	120	135	150	165	180
	or years	1/12	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE ITEMS														
COOLANT – check level and coolant %		1/12	1	2	3	4		6	7	8	9		11	12
COOLANT – replace							5					10		
DRIVE BELTS – check			1	2	3	4	5	6	7	8	9	10	11	12
CAM SHAFT CHAIN – replace						Not required								
AIR CLEANER ELEMENT– replace						4				8				12
SPARK PLUGS – replace						4				8				12
FUEL FILTER – replace				2		4		6		8		10		12
ENGINE OIL AND FILTER – replace			1	2	3	4	5	6	7	8	9	10	11	12
POWER STEERING – check level		1/12	1	2	3	4	5	6	7	8	9	10	11	12
AUTO TRANS – check fluid level				2		4		6		8		10		12
AUTO TRANS – fluid change		Not changed for life of vehicle unless additional service required												
LEAKAGE – visual check of engine and transmission		1/12	1	2	3	4	5	6	7	8	9	10	11	12
LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT – check		1/12	1	2	3	4	5	6	7	8	9	10	11	12
WINDSCREEN WIPER / WASHER system – check fluid level and blade condition		1/12	1	2	3	4	5	6	7	8	9	10	11	12

MAINTENANCE SCHEDULE cont.

Use odometer reading or years, whichever occurs first	x 1000 km	1.5	15	30	45	60	75	90	105	120	135	150	165	180
	or years	1/12	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE ITEMS														
DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES – lubricate			1	2	3	4	5	6	7	8	9	10	11	12
HEADLIGHT ADJUSTMENT – check			1	2	3	4	5	6	7	8	9	10	11	12
BODY / UNDERBODY – check corrosion protection		1/12	1	2	3	4	5	6	7	8	9	10	11	12
BRAKES – check pad thickness			1	2	3	4	5	6	7	8	9	10	11	12
BRAKES, PIPES, BRAKE PRESS. HOSES, FUEL LINES, EXHAUST, SUSPENSION – visual check		1/12	1	2	3	4	5	6	7	8	9	10	11	12
RUBBER BOOTS – check		1/12		2		4		6		8		10		12
WHEELS – check wheel nut torque, tyre condition, and tyre pressure		1/12	1	2	3	4	5	6	7	8	9	10	11	12
BRAKE AND CLUTCH FLUID – change		Every 2 years (regardless of kilometres)												
POLLEN FILTER (if fitted) – replace				2		4		6		8		10		12
REMOTE CONTROL BATTERY – replace				2		4		6		8		10		12
ROAD TEST and reset service due light		1/12	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE LABOUR TIMES		–	1.1	1.6	1.5	1.7	1.8	1.6	1.5	1.7	1.5	1.9	1.5	1.7

SERVICE TIMES

The owner will be charged for all lubricants and materials used plus labour at the times recommended on the coupon.

The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.

Where any deficiencies are noted, such items should be reported to the owner / operator so that the extra work required can be authorised.

The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may be harmful to your vehicle.

1500 km or 1 month INSPECTION

Holden invites the new owner of this vehicle to return to the Selling Retailer for a free service inspection at 1500 km.

Owner's Name
Mr.
Mrs. .....
Miss.
Other .....

Address .....

Town .....

State ..... Postcode .....

Reg. no. ..... Engine no .....

ISOVIN. ..... Model .....

Odometer reading ..... Date of Acquisition .....

Selling Retailer's Stamp and Signature .....

This vehicle has been thoroughly checked in accordance with the items on the reverse side of this voucher.

This inspection is provided free of charge.

Servicing Retailer's Stamp and Signature

Servicing Retailer .....

Town ..... State .....

Owner's signature .....

1500 km or 1 month Inspection Validation

This vehicle has been thoroughly checked in accordance with the 1500 km / 1 month inspection.

Retailer .....

Service Manager's signature .....

Date ..... Odometer reading .....

- ❑ COOLANT - check fluid level, check coolant %
- ❑ ENGINE OIL - check fluid level
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKE AND CLUTCH FLUID - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

15 000 km or 1 year Service Validation

Servicing Retailer .....
Brake fluid changed: YES / NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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.....
.....
.....

15 000 km or 1 year

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....
.....
.....

Signature .....

Date .....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ LEAKAGE - visual check of engine and trans.
- ❑ LIGHTS, MONITORING, SIGNAL E*UIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

30 000 km or 2 years

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.6 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

30 000 km or 2 year Service Validation

Servicing Retailer .....
Brake fluid changed: YES / NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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- ❑ COOLANT - check level, check coolant %
- ❑ POLLEN FILTER (if fitted) - replace
- ❑ DRIVE BELTS - check
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ AUTO TRANS - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ REMOTE CONTROL BATTERY - replace
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

45 000 km or 3 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

45 000 km or 3 years Service Validation

Servicing Retailer .....
Brake fluid changed: YES / NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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.....
.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

60 000 km or 4 years Service Validation

Servicing Retailer .....
Brake fluid changed: YES / NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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60 000 km or 4 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.7 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....
.....
.....

Signature .....

Date .....

- ❑ COOLANT - check level, check coolant %
- ❑ POLLEN FILTER (if fitted) - replace
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - replace
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ AUTO TRANS - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ REMOTE CONTROL BATTERY - replace
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

75 000 km or 5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.8 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

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Signature .....

Date .....

75 000 km or 5 years Service Validation

Servicing Retailer .....

Brake fluid changed: YES / NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - replace
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

90 000 km or 6 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.6 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

90 000 km or 6 years Service Validation

Servicing Retailer .....
Brake fluid changed: YES / NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
.....
.....
.....
.....

- ❑ COOLANT - check level, check coolant %
- ❑ POLLEN FILTER (if fitted) - replace
- ❑ DRIVE BELTS - check
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ AUTO TRANS - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ REMOTE CONTROL BATTERY - replace
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

105 000 km or 7 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

105 000 km or 7 years Service Validation

Servicing Retailer .....
Brake fluid changed: YES / NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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.....
.....
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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

120 000 km or 8 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.7 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

120 000 km or 8 years Service Validation

Servicing Retailer .....

Brake fluid changed: YES / NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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.....

.....

- ❑ COOLANT - check level, check coolant %
- ❑ POLLEN FILTER (if fitted) - replace
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - replace
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ AUTO TRANS - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ REMOTE CONTROL BATTERY - replace
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

135 000 km or 9 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

135 000 km or 9 years Service Validation

Servicing Retailer .....
Brake fluid changed: YES / NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
.....
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.....
.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

150 000 km or 10 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.9 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

150 000 km or 10 years Service Validation

Servicing Retailer .....

Brake fluid changed: YES / NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - replace
- ❑ POLLEN FILTER (if fitted) - replace
- ❑ DRIVE BELTS - check
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ AUTO TRANS - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ REMOTE CONTROL BATTERY - replace
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

165 000 km or 11 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

165 000 km or 11 years Service Validation

Servicing Retailer .....

Brake fluid changed: YES / NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - Change every 2 years (regardless of km)

180 000 km or 12 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.7 hours labour
- add 0.2 hours if brake / clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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.....

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Signature .....

Date .....

180 000 km or 12 years Service Validation

Servicing Retailer .....

Brake fluid changed: YES / NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ POLLEN FILTER (if fitted) - replace
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - replace
- ❑ FUEL FILTER - replace
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check fluid level
- ❑ AUTO TRANS - check fluid level.
- ❑ LEAKAGE - visual check of engine and trans
- ❑ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ❑ WINDSCREEN WIPE / WASH system - check fluid level and blade condition
- ❑ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY / UNDERBODY - check corrosion protection
- ❑ BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ REMOTE CONTROL BATTERY - replace
- ❑ ROAD TEST AND RESET SERVICE DUE LIGHT

- ❑ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

INDEX

ABS 4-9
Airbags 6-17
Accessory socket 1-20
Accidents 6-2
Air conditioning 1-18
Air pressures (tyres) 7-7
Alternator (battery) warning light 1-7
Anchorage points 3-17
Antifreeze fluid 7-4
Appearance care 11-1
Ashtray 1-21
Audible warning 1-12
Automatic transmission
  Operation 4-4
  Fluid level 7-5
  Moving with flat battery 6-16

Battery
  Flat battery with auto trans 6-16
  Fluid level 7-6
  Jump starting 6-14
Bonnet release 1-32
Boiling 6-12
Brakes
  ABS 4-9
  Precautions 4-7
  Fluid level 7-5
  Warning light 1-6
  Park brake 3-23
Bulbs (replacement) 6-20

Capacities (fluid) 8-2
Caravan & trailer towing 10-3
Carbon monoxide warning 5-2
Central locking 2-4
Certificate 9-2
Chains, snow 4-8
Change of name/address ..... page 3
Check engine light 1-6
Child proof door switches 2-2
Child restraints 3-15
Cigarette lighter 1-20
Cleaning of vehicle 11-1
Clock 1-22
Cooling system
  Fluid level 7-4
  Overheating 6-12
  Temperature gauge 1-5
Courtesy light 3-22
Cruise control 1-30
Curb weight 10-2
Customer assistance 9-10

Dashboard layout 1-2
Date 1-22
Deadlock 2-4
Dealers (Authorised Holden) 9-12
Demister 1-19
Dimensions 8-3
Dimmer 1-10
Dipping (headlights) 1-10
Dipstick 7-3
Display
  Triple information 1-22
  Multi information 1-23
Dome light
  Bulb replacement 6-25
  Operation 3-22
Door locks 2-4
Drink holders 3-18
Driving precautions 4-7

INDEX

Economy, fuel 5-6
Electric door locks 2-4
Electric mirrors 3-19
Emergencies 6-2
Emission control system 5-5
Engine
- Cooling system 7-4
- Identification number 8-5
- Overheating 6-12
- Running-in 4-2
- Specifications 8-2
- Starting 4-2
- Warning light 1-6

Engine oil
- Capacity 8-2
- Checking levels 7-3
- Pressure light 1-7

Exhaust gas warning 5-2

First aid 6-3
Flashers
- Hazard warning 1-11
- Turn signal 1-11

Flat battery
- Jump starting 6-14
- With auto transmission 6-16

Flat tyre 6-4
Fluid capacities 8-2
Fluid levels
- Automatic transmission 7-5
- Battery 7-6
- Brake 7-5
- Coolant 7-4
- Oil 7-3
- Power Steering 7-5
- Windscreen washer 7-6

Fog lights 1-11
- Warning light 1-8

Fumes caution 5-2
Fuses 6-27
Fuel
- Consumption 5-6
- Refuelling 5-3
- Gauge 1-5

Gauges 1-4
Gears 4-6
Generator (battery) warning light 1-7
Globe replacement 6-20
Glovebox 1-14

Hand brake 3-23
Hazard warning flashers 1-11
Head restraint 3-9
Heater controls 1-16
Heated rear window 1-19
Headlamps
- Bulb replacement 6-21
- Switch 1-10

Height adjust seat belts 3-14
High beam indicator light 1-7
Holden Dealers 9-12
Holden Customer Assistance 9-10
Hood 1-32
Horn 1-3

INDEX

Identification numbers 8-4
Ignition switch 1-12
Immobiliser 2-5
Indicators (turn signals) 1-11
Indicator/warning lights 1-6
Infant & child restraints 3-15
Inflation (tyres) 7-7
Information display
  Triple 1-22
  Multi 1-23
Instrument panel 1-2
Interior (courtesy) light 3-22

Jack 6-4
Jump starting 6-14

Kerb weight 10-2
Keys 2-2

Labels 8-4
Lighter 1-20
Lights
  Bulb replacement 6-20
  Instrument panel 1-6
  Exterior lights 1-10
  Interior lights 3-22
Loading information 10-2
Locks
  Bonnet 1-32
  Door 2-4
  Emergencies 2-6
  Fuel filler 5-3
  Ignition 1-12
  Tailgate 2-7
Low fuel light 1-8
Lubricants 8-2
Luggage compartment 3-7

Maintenance schedule 12-6
Manual transmission
  Fluid 8-3
  Operation 4-6
Medical assistance 6-2
Mirrors 3-19
Model identifications 8-5

New vehicle running-in 4-2
New Zealand Customer Assist 9-11
New Zealand Dealers 9-28

INDEX

Octane rating (petrol) 5-3
Odometer 1-4
Oil
  Capacity 8-2
  Level 7-3
  Low pressure warning 1-7
Outlets, air 1-15
Overheating
  Procedure 6-12
  Temperature warning 1-5
Owner responsibility
  Emission controls 5-5
  Weekly checks 7-2
  Maintenance service 12-2

Paintwork cleaning 11-4
Park brake lever 3-23
Parking 4-3
Petrol 5-3
Phone 1-13
Plates 8-4
Polishing 11-6
Power locking 2-4
Power mirrors 3-19
Power steering
  Fluid level 7-5
  Precaution 4-7
Push starting 6-14

Radiator – see Cooling system
Radio 1-13
Rear axle load 10-2
Rear seat adjustment 3-3
Rear window demister 1-19
Rear window wipe/wash 1-9
Rear vision mirrors 3-19
Remote control 2-3
Refuelling 5-3
Restraints 3-9
Roof racks 10-2
Running-in 4-2

Safer driving precautions 4-7
Safety belts 3-11
Seats
  Rear 3-3
  Front 3-2
Seat belts 3-11
Serial number 8-5
Service 12-2
Snow chains 4-8
Spare wheel 6-5
Specifications 8-1
Speedometer 1-4
Sporty drive 1-8
Starting
  Flat battery 6-14
  Normal engine 4-2
Steering, power 7-5
Steering wheel
  Lock 1-12
  Tilt 1-3
Stereo, radio/cassette 1-13
Stop/tail light replacement 6-24
Storage, jack & spare wheel 6-4

INDEX

Tachometer 1-4
Tailgate 2-7
Tank capacity 8-2
Temperature
  Gauge 1-5
  Overheating 6-12
Tilt steering 1-3
Time 1-22
Towing
  Another vehicle 6-9
  Caravan/trailer 10-3
  Your vehicle 6-10
Traction control 4-10
Transmission
  Automatic 4-4
  Fluid level (auto) 7-5
  Manual 4-6
Trip computer 1-26
Tripmeter 1-4
Turn signal
  Bulb replacement 6-23
  Operation 1-11
Tyres
  Flat 6-4
  General 7-7
  Inflation pressure 7-7
  Rotation 7-8

Vehicle Identification Number 8-5
Vehicle loading 10-2
Vehicle weights 10-2
Ventilation system 1-15

Warning lights 1-6
Warranty Certificate 9-2
Washer Fluid 7-6
Washing 11-4
Wheel changing 6-4
Wheel replacement 7-8
Windows 3-20
Windscreen
  Wiper/washer control lever 1-9
  Fluid level 7-6
Wiper blades 11-7

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